STR-DA333ES/DA555ES

SERVICE MANUAL

US Model
Canadian Model

Photo: STR-DA555ES

This receiver incorporates Dolby* Digital and Dolby Pro Logic Surround and the DTS** Digital Surround System.

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AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 120 watts (STR-DA555ES) and 80 watts (STR-DA333ES) per channel minimum RMS power, with no more than 0.05% total harmonic distortion from 250 milliwatts to rated output (USA model only).

SPECIFICATIONS

Amplifier section

POWER OUTPUT

Stereo mode

(8 ohms, 20 Hz - 20 kHz, THD 0.05%)

STR-DA555ES:
120 W + 120 W
STR-DA333ES:
80 W + 80 W

Surround mode

(8 ohms, 20 Hz - 20 kHz, THD 0.05%)
STR-DA555ES:
Front: 120 W/ch
Center[a)]: 120 W
Rear[a)]: 120 W/ch
STR-DA333ES:
Front: 80 W/ch
Center[a)]: 80 W
Rear[a)]: 80 W/ch
(4 ohms, 20 Hz - 20 kHz, THD 0.05%)
STR-DA555ES:
Front: 100 W/ch
Center[a)]: 100 W
Rear[a)]: 100 W/ch
STR-DA333ES:
Front: 70 W/ch
Center[a)]: 70 W
Rear[a)]: 70 W/ch

a) Depending on the sound field settings and the source, there may be no sound output.

Dynamic power output

165 W + 165 W, 8 ohms
230 W + 230 W, 4 ohms

Harmonic distortion at rated output

Less than 0.05% (with sound field, tone, and bass booster bypassed)

Frequency response

PHONO: RIAA equalization curve ±0.5 dB

— Continued on next page —

FM STEREO FM-AM RECEIVER

MICROFILM

SONY®

CD, TAPE, MD/DAT, DVD/LD, TV/SAT, VIDEO 1, 2, and VIDEO 3:
10 Hz - 50 kHz +0.5/–2 dB (with sound field, tone, and bass booster bypassed)

Inputs (Analog)

PHONO:
Sensitivity: 2.5 mV
Impedance: 50 kilohms
S/N[b]: 75 dB (A, 2.5 mV[c])
5.1CH INPUT, CD, DVD/LD, TAPE, MD/DAT, TV/SAT, VIDEO 1, 2, and VIDEO 3:
Sensitivity: 150 mV
Impedance: 50 kilohms
S/N[b]: 82 dB (A, 150 mV[c])

b) 78' IHF
c) Weighted network, input level

Inputs (Digital)

DVD/LD (coaxial):
Sensitivity: 0.5 Vp-p
Impedance: 75 ohms
S/N: 100 dB (A, 20 kHz LPF)
DVD/LD, TV/SAT, MD/DAT (Optical):
S/N: 100 dB (A, 20 kHz LPF)

Outputs (Analog)

TAPE, MD/DAT, (REC OUT); VIDEO 1, 2 (AUDIO OUT):
Voltage: 150 mV,
Impedance: 10 kilohms
FRONT L/R, CENTER, REAR L/R WOOFER:
Voltage: 2 V
Impedance: 1 kilohms
PHONES:
Accepts low- and high-impedance headphones

Outputs (Digital)

MD/DAT, (Optical)

BASS BOOST +6 dB at 70 Hz

Sampling Frequency
48 kHz

EQ
BASS:
100 Hz~1.0kHz
(21 steps)
MID:
500 Hz~5.0kHz
(21 steps)
TREBLE:
1.0 kHz~10kHz
(21 steps)
Gain levels:
±10 dB, 1 dB step

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna terminals
75 ohms, unbalanced

Sensitivity
Mono: 18.3 dBf, 2.2 µV
Stereo: 38.3 dBf, 22.5 µV

Usable sensitivity
11.2 dBf, 1 µV (IHF)

S/N
Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz
Mono: 0.3%
Stereo: 0.5%

Separation 45 dB at 1 kHz

Frequency response
30 Hz - 15 kHz
+0.5/–2 dB

Selectivity 60 dB at 400 kHz

AM tuner section

Tuning range
With 10-kHz tuning scale:
530 - 1710 kHz[d]
With 9-kHz tuning scale:
531 - 1710 kHz[d]

Antenna Loop antenna

Usable sensitivity
50 dB/m (at 1,000 kHz or 999 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion
0.5 % (50 mV/m, 400 kHz)

Selectivity
At 9 kHz: 35 dB
At 10 kHz: 40 dB

d) You can change the AM tuning scale to 9 kHz. After tuning in any AM station, turn off the receiver. Hold down the TUNING + button and press the I/⏻ button. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz, repeat the procedure.

Video section

Inputs
Video: 1 Vp-p 75 ohms
S-video:
Y: 1 Vp-p 75 ohms
C: 0.286 Vp-p 75 ohms

Outputs
Video: 1 Vp-p 75 ohms
S-video:
Y: 1 Vp-p 75 ohms
C: 0.286 Vp-p 75 ohms

General

System
Tuner section:
PLL quartz-locked digital synthesizer system
Preamplifier section:
Low-noise NF type equalizer
Power amplifier section:
Pure-complementary SEPP

Power requirements
120 V AC, 60 Hz

Power consumption
STR-DA555ES:
USA: 380 W
Canada: 550 VA
STR-DA333ES:
USA: 280 VA
Canada: 400 VA

AC outlets 2 switched, total 120 W

Dimensions
430 × 160 × 410 mm (17 × 6 3/8 × 16 in.) including projecting parts and controls

Mass (Approx.)

STR-DA555ES
16 kg (35 lbs. 3 oz.)
STR-DA333ES
14 kg (30 lbs. 14 oz.)

Supplied accessories

- FM wire antenna (1)
- AM loop antenna (1)

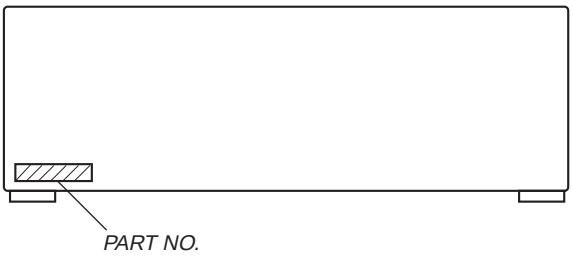
STR-DA555ES only
- Remote commander RM-TP502 (remote) (1)
- R6 (size-AA) alkaline batteries (4)
- Coin shaped lithium battery (CR-2032) (1)

STR-DA333ES only
- Remote commander RM-LJ302 (remote) (1)
- R6 (size-AA) alkaline batteries (3)

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION

– BACK PANEL –



MODEL	PARTS No.
DA555ES:US model	4-219-066-0☐
DA555ES:Canadian model	4-219-066-1☐
DA333ES:US model	4-219-066-2☐
DA333ES:Canadian model	4-219-066-3☐

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

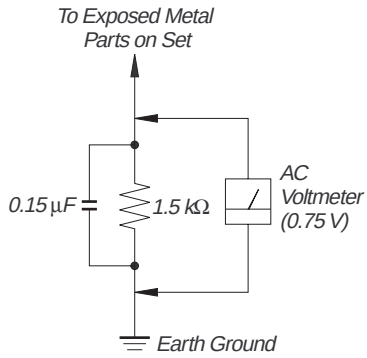


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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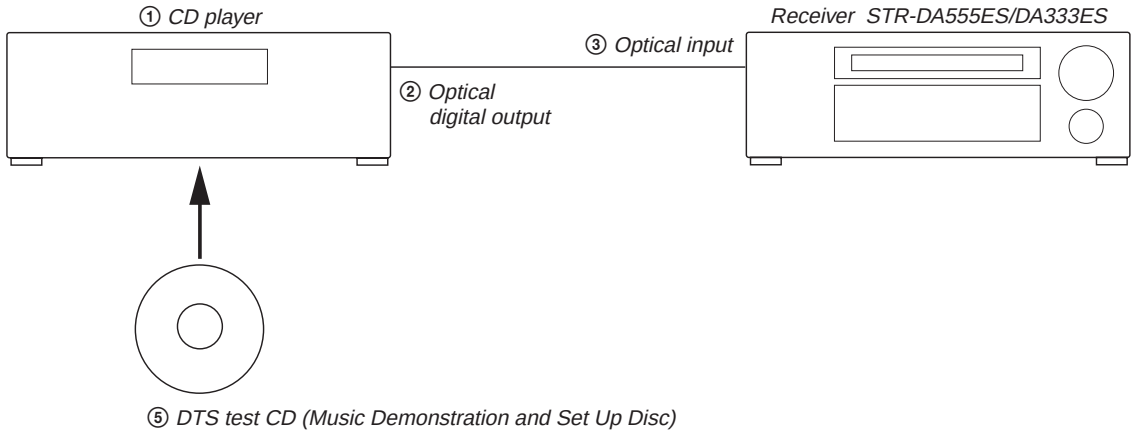
SECTION 1
SERVICE NOTE

DTS Decode Test

• Required Instrument
CD player (equipped with optical digital output)
Optical cable
DTS test CD (J-2501-154-A)

Connection:



Procedure:
1. Set the FUNCTION of the receiver to the CD position and confirm that " OPTICAL " and "CD" appear on the display.

2. Insert the DTS test CD into the CD player and play the CD.

3. About three seconds later, confirm that the receiver recognizes the optical signal and that the "DTS" and "dts [3/2]" are appear on the display. Confirm also that MULTI CHANNEL DECODING (blue lamp) flashes on the front panel.

Music Demonstration

Track No.	Contents	Time
1	Seal : "Prayer for the Dying"	5'40"
2	Andrew Litton conducting The Dallas Symphony Orchestra & Chorus: Excerpt from Tchaikovsky: "1812 Overture"	4'16"
3	Alan Parsons with Christopher Cross: "So Far Away"	4'08"
4	Shoelss Joe: "The Bet"	3'29"
5	TELARC: "A Touch of Surround Madness"	6'42"

Set-Up

Track No.	Contents	Time
6	1 kHz sine (All channels) Level Adjustment and Harmonic Distortion Analysis	1'00"
7	100 Hz sine (All channels) Verification of Signal and Subwoofer Testing	1'00"
8	C-Weighted Pink Noise-Left Front Channel	1'00"
9	C-Weighted Pink Noise-Center Channel	2'00"
10	C-Weighted Pink Noise-Right Front Channel	2'00"
11	C-Weighted Pink Noise-Right Rear Channel	2'00"
12	C-Weighted Pink Noise-Left Rear Channel	2'00"
13	C-Weighted Pink Noise-Subwoofer (LEE)	2'00"
14	C-Weighted Pink Noise-All Channels	2'00"
15	10 Hz to 20 kHz Sine Sweep An "All Channel" Frequency Response Test	2'00"
16	20 Hz to 160 Hz sine sweep A "Subwoofer" Low Frequency Response Test	2'00"

* Track numbers from 8 to 14 are for Room Equalization and Channel Identification.

Location of Parts and Basic Operations

This chapter provides information about the locations and functions of the buttons and controls on the front panel. It also explains basic operations.

Front Panel Parts Description

1 I/⏻ switch

Press to turn the receiver on and off.

- Before you turn on the receiver, make sure that you have turned the MASTER VOLUME control to the leftmost position to avoid damaging your speakers.

2 FUNCTION control

Rotate to select the component you want to use.

To select	Rotate to light
VCR	VIDEO 1 or VIDEO 2
Camcorder or video game	VIDEO 3
TV or satellite tuner	TV/SAT
DVD or LD player	DVD/LD
Tape deck	TAPE
MD or DAT deck	MD/DAT
CD player	CD
Built in tuner	TUNER
Turntable	PHONO

After selecting the component, turn on the component you selected and play the program source.

- After selecting VCR, camcorder, video game, DVD player, or LD player, turn on the TV and set the TV's video input to match the component you selected.
- When using digital inputs, there may be up to 6 seconds of silence when switching functions or inserting new discs.

MODE button

Press to select and play another video/audio source in combination with the selected component.
Each time you press the button, the display changes as follows:

→ V:XXX → A:XXX → selected component →

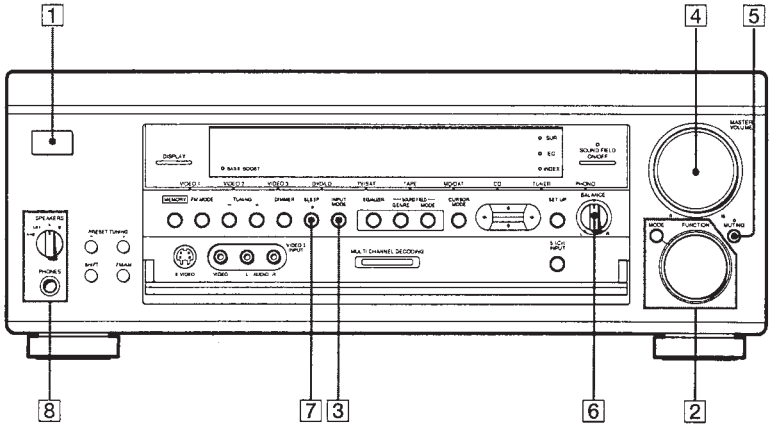
Press MODE to display	And rotate FUNCTION to select
V:XXX	Any video source to enjoy with the audio from the selected component
A:XXX	Any audio source to enjoy with the video from the selected component

- When the 5.1CH INPUT (14) is selected, the display changes as follows.

→ V:XXX → 5.1CH INPUT →

Function indicators

Normally, the indicator above the selected function lights orange. However, when MODE is used to select a different video (V:XXX) or audio (A:XXX) source, the video function lights green and the audio function lights orange. This also occurs when you select audio components (like PHONO).



3 INPUT MODE button

Press to select the input mode for your digital components (DVD/LD, TV/SAT, and MD/DAT). Each press switches the input mode of the currently selected component.

Select	To
AUTO	Give priority to digital signals when there are both digital and analog connections. If there are no digital signals, analog is selected
ANALOG	Specify the analog audio signals input to the AUDIO IN (L and R) jacks
DIGITAL (OPTICAL)	Specify the digital audio signals input to the DIGITAL OPT input jacks
DIGITAL (COAXIAL)	Specify the digital audio signals input to the DIGITAL COAX input jacks (DVD/LD only)

4 MASTER VOLUME control

After turning on the component you selected, rotate to adjust the volume.

5 MUTING button

Press to mute the sound. The indicator above the button lights up when the sound is muted.

6 BALANCE control

Rotate right or left to adjust the balance of the front speaker output.

7 SLEEP button

Press to select the time after which the receiver turnsoff automatically (see page 43).

8 SPEAKERS selector

Set according to the front speakers you want to drive.

Set to	To select
A	The speakers connected to the FRONT SPEAKERS A terminals
B	The speakers connected to the FRONT SPEAKERS B terminals
A+B*	The speakers connected to both the FRONT SPEAKERS A and B terminals (parallel connection)
OFF	No speaker output

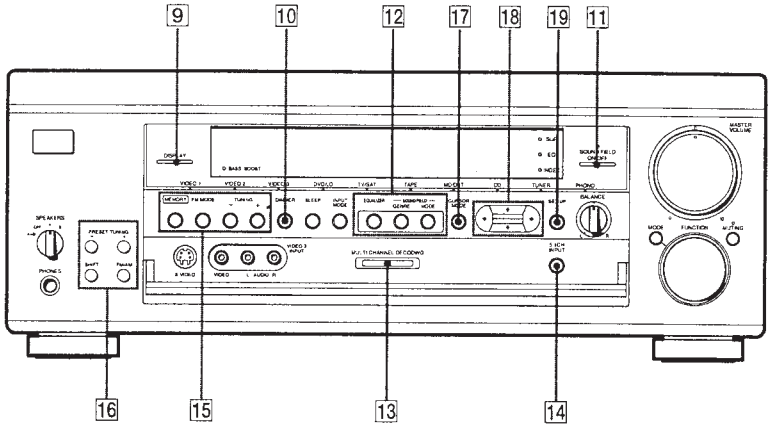
* *Be sure to connect front speakers with a nominal impedance of 8 ohms or higher if you want to select both sets (A+B) of front speakers. When you use both sets (A+B) of front speakers, set the IMPEDANCE SELECTOR to "4Ω" (see page 15).*

PHONES jack

Connects headphones.

- To use the headphones, set the SPEAKERS selector to OFF to output sound to the headphones.
- When the sound field is ON, setting the SPEAKERS selector to OFF will automatically present a 2 channel (stereo) downmix from the headphones.

This section is extracted from STR-DA555ES instruction manual.



9 DISPLAY button
Press repeatedly to change the information on the display window as follows:

Index name of the component or the preset station*
↓
FUNCTION setting or frequency**
↓
Sound field applied to the program source

* *Index name appears only when you have assigned one to the component or preset station (see page 42). Index name does not appear when only blank spaces have been entered, or it is the same as the function button.*

** *Frequency appears only when the tuner is selected.*

10 DIMMER button
Press repeatedly to adjust the brightness of the display.

11 SOUND FIELD ON/OFF button
Press to turn the sound field on or off. The indicator above the button lights when the sound field is on.
For details, see "Enjoying Surround Sound" starting from page 26.

12 Use the following buttons to enjoy surround sound. For details, see "Enjoying Surround Sound" starting from page 26.

EQUALIZER button
Press to turn the equalizer on or off. The EQ indicator lights when the equalizer is turned on.
When you adjust the equalizer using the CURSOR MODE menu EQUALIZER parameters (page 35) the settings are stored automatically and can be reproduced whenever you turn on the equalizer.

- The equalizer is not compatible with 96 kHz digital audio signals.

GENRE button
Press to select the sound field group you want.

MODE button
Press to select a sound field from the group you selected.

When you want to enjoy high quality sound
Do the following to bypass the sound field, equalization, and bass booster circuits.
1 Press BASS BOOST on the remote to turn off the BASS BOOST indicator.
2 Press EQUALIZER to turn off the EQ indicator.
3 Press SOUND FIELD ON/OFF to turn off the sound field.
The result will be a sound that is highly faithful to the program source.

13 MULTI CHANNEL DECODING indicator
This indicator lights when the unit is decoding signals recorded in a multi channel format.

14 5.1CH INPUT button
Press to enjoy the audio source connected to the 5.1CH INPUT jacks with the video from the selected component.

15 The following buttons operate the built-in tuner. For details, see "Receiving Broadcasts" starting from page 37.

MEMORY button
Press to memorize a preset station.

FM MODE button
If "STEREO" flashes in the display and the FM stereo reception is poor, press this button. You will not have the stereo effect but the sound is improved.

TUNING +/– buttons
Scans all the available radio stations.

16 The following buttons operate the built-in tuner. For details, see "Receiving Broadcasts" starting from page 37.

PRESET TUNING +/– buttons
Scans all preset stations.

SHIFT button
Selects a memory page for preset stations.

FM/AM button
Selects the FM or AM band.

17 CURSOR MODE button
Press repeatedly to select any of the following three cursor modes. The indicator for the selected cursor mode lights up. The indicator turns off when you press SET UP.

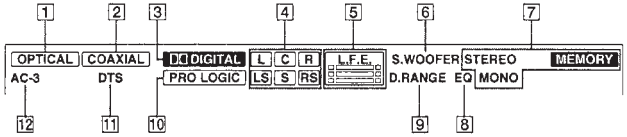
When cursor mode is	You can
SURROUND	Change the various surround parameters (effect level, wall type, etc.), adjust the volume and balance of the rear speakers, and adjust the volume of the center speaker and subwoofer (page 33)
EQUALIZER	Adjust the equalization (bass/mid/treble) of the front, center and rear speakers (page 34). Press the EQUALIZER button to activate the equalizer.
INDEX	Enter an index name for preset stations and program sources (page 42)

18 Cursor buttons (↑/↓/←/→)
After pressing CURSOR MODE or SET UP, use these buttons to make specific settings (see pages 16, 33, 42, and 44)

19 SET UP button
Press repeatedly to select any of the following indications. The selected indication appears in the display and you will be able to make various settings using the cursor buttons.

When you display	You can
Speaker setup	Specify the front, center, rear speaker sizes, the rear speaker position, and whether or not you are using a sub woofer. (page 16)
Speaker Distance	Specify the front, center, and rear speaker distances and the unit of measurement. (page 18)
Other	Specify whether the Control A1 II auto function is on or off, and whether the receiver responds to the 2 way remote control or not. (page 44)

Understanding the Multi-Channel Surround Displays



1 OPTICAL
Lights up when the source signal is a digital signal being input through the OPTICAL terminal.

2 COAXIAL
Lights up when the source signal is a digital signal being input through the COAXIAL terminal.

3 DIGITAL
This indicator lights when the sound field is on and the unit is decoding signals recorded in the Dolby Digital (AC-3) format.

4 Playback channel indicators
The letters light to indicate the channels being played back.
L: Front Left R: Front Right
C: Center (monaural) LS: Left Surround
RS: Right Surround
S: Surround (monaural or the rear components obtained by Pro Logic processing)
The boxes around the letters light to indicate the speakers used to playback the channels.
See the next page for details regarding the playback channel indicators.

5 L.F.E
The letters "L.F.E" light up when the disc being played contains the LFE (Low Frequency Effect) channel. When the sound of the LFE channel signal is actually being reproduced, the bars underneath the letters lights up to indicate the level. Since the LFE signal is not recorded in all parts of the input signal the bar indication will fluctuate (and may turn off) during playback.

6 S.WOOFER
Lights when sub woofer selection is set to "YES" and this unit detects that the disc being played does not contain the LFE channel signal. While this indicator is lit, this unit creates a sub woofer signal based on the low frequency components of the front channels.

7 Tuner indicators
These indicators light when using the receiver to tune in radio stations, etc. See pages 37~40 for tuner operations.

8 EQ
Lights when the equalizer is turned on. See page 24 and 34 for equalizer operations.

9 D. RANGE
Lights when dynamic range compression is active. See page 33 and 34 to adjust the dynamic range compression.

10 PRO LOGIC
Lights when this unit applies Pro Logic processing to two channel signals in order to output the center and surround channel signals.

11 DTS
Lights up when DTS signals are input.

Notes
- When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is NOT set to ANALOG (see 3 on page 23).
- You may hear some noise when starting playback from a DTS format LD or CD. This, however, is not a malfunction.

12 AC-3
Lights when Dolby Digital (AC-3) signals are input.

Sound source displays
The letters (L, C, R, etc.) indicate the source sound. The boxes around the letters vary to show how the receiver downmixes the source sound (based on the speakers settings). When using music sound modes like LARGE HALL or SMALL HALL, the receiver adds reverberation based on the source sound.
The following table shows how the indicators light when using AUTO FORMAT DECODING mode.
Although the table below shows almost all of the configurations available from multi channel surround signals, the ones marked "☆" are the most common.

Recording Format (Front/Rear)	Input Channel Display	Speaker Setup and Playback Channel Display: All speakers present	Rear speakers absent	Center speaker absent	Rear/center speakers absent
1/0	DOLBY DIGITAL [1/0]	DIGITAL C	DIGITAL C	DIGITAL C	DIGITAL C
	dts [1/0]	DTS C	DTS C	DTS C	DTS C
2/0*	DOLBY DIGITAL [2/0]	L R	L R	L R	L R
	dts [2/0]	DTS L R	DTS L R	DTS L R	DTS L R
3/0	DOLBY DIGITAL [3/0]	DIGITAL L C R	DIGITAL L C R	DIGITAL L C R	DIGITAL L C R
	dts [3/0]	DTS L C R	DTS L C R	DTS L C R	DTS L C R
2/1	DOLBY DIGITAL [2/1]	DIGITAL L R S	DIGITAL L R S	DIGITAL L R S	DIGITAL L R S
	dts [2/1]	DTS L R S	DTS L R S	DTS L R S	DTS L R S
3/1	DOLBY DIGITAL [3/1]	DIGITAL L C R S	DIGITAL L C R S	DIGITAL L C R S	DIGITAL L C R S
	dts [3/1]	DTS L C R S	DTS L C R S	DTS L C R S	DTS L C R S
2/2	DOLBY DIGITAL [2/2]	DIGITAL L R LS RS	DIGITAL L R LS RS	DIGITAL L R LS RS	DIGITAL L R LS RS
	dts [2/2]	DTS L R LS RS	DTS L R LS RS	DTS L R LS RS	DTS L R LS RS
3/2	☆ DOLBY DIGITAL [3/2]	DIGITAL L C R LS RS	DIGITAL L C R LS RS	DIGITAL L C R LS RS	DIGITAL L C R LS RS
	☆ dts [3/2]	DTS L C R LS RS	DTS L C R LS RS	DTS L C R LS RS	DTS L C R LS RS
2/0**	☆ DOLBY DIGITAL [2/0]	PRO LOGIC L C R S	PRO LOGIC L C R S	PRO LOGIC L C R S	L R
	☆ DOLBY PRO LOGIC	PRO LOGIC L C R S	PRO LOGIC L C R S	PRO LOGIC L C R S	L R
	☆ STEREO PCM**	L R	L R	L R	L R

* Signals with Dolby surround encoded OFF
** Signals with Dolby surround encoded flag ON

Notes
- The receiver performs Pro Logic decoding and the display conforms to 2/0** when using the following movie sound modes with 2/0* or STEREO PCM format signals. (CINEMA STUDIO A, B, C, NIGHT THEATER, V. MULTI DIMENSION, V. ENHANCED A, V. ENHANCED B or V. SEMI-M. DIMENSION)
- When using music sound modes like LARGE HALL or SMALL HALL with standard audio formats like PCM, the receiver creates rear signals from the front L and R signals. In this case, sound is output from the rear speakers, but output channel indicators for the rear speakers do not light.

SECTION 3
TEST MODE

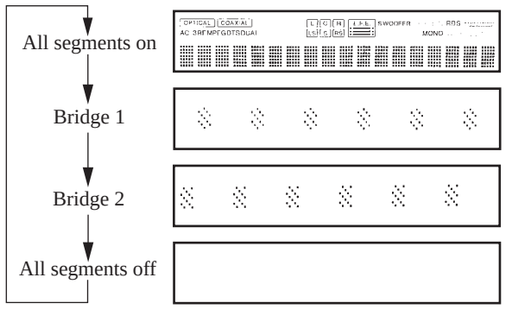
FLUORESCENT INDICATOR TUBE TEST MODE

* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.

Procedure:

While depressing the FUNCTION MODE button and the SOUND FIELD MODE button simultaneously, press the I/⏻ button to turn on the main power. All segments turn on at the same time, then each segment turns on one after another.

When the CURSOR MODE button, ←, ↑, ↓, or → is pressed, the indication advances in the following order: All segments on, Bridge 1, Bridge 2, All segments off.



FACTORY SET MODE

* All preset contents are reset to the default setting.

Procedure:

While depressing the FUNCTION MODE button and the SOUND FIELD GENRE button simultaneously, press the I/⏻ button to turn on the main power. The message FACTORY SET appears and the present contents are reset to the default values.

ALL CLEAR MODE

* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

While depressing the SOUND FIELD GENRE button and the SOUND FIELD ON/OFF buttons simultaneously, press the I/⏻ button to turn on the main power. The message "ALL CLEAR!" appears and the preset data is cleared.

SOUND FIELD CLEAR MODE

* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.

Procedure:

While depressing the SOUND FIELD ON/OFF button, press the I/⏻ button to turn on the main power. The message "SURR CLEAR!" appears and initialization is performed.

DSP TEST MODE

Procedure:

While depressing the FUNCTION MODE button and the EQUALIZER buttons simultaneously, press the I/⏻ button to turn on the main power. The message "DSP NO ERROR" or "DSP ERROR". When "DSP NO ERROR" is displayed, a 1 kHz signal is output to all channels.

When the ←, ↑, ↓, or → button is pressed while "DSP NO ERROR" is displayed, the message "DSP TEST MODE" appears. In this mode, the input signal that is selected by the FUNCTION knob is distributed to each speaker.

Speaker	CENTER	REAR L	REAR R	FRONT L	FRONT R
Signal	L	L	R	L	R

DTS MODE

* Some DTS sounds will be distorted even when the volume is lowered. In this case, set the attenuator to ON according to the following procedure and reduce the overall level of the sound.

Procedure:

While pressing the ← button and → button simultaneously, press the I/⏻ button to turn ON the power. The message "ATTENUATE OFF" or "ATTENUATE ON" message appears.

SECTION 4
ELECTRICAL ADJUSTMENT

IDLING CURRENT ADJUSTMENT

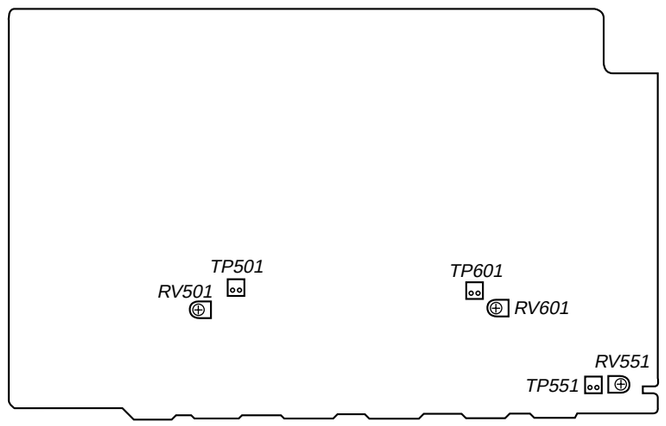
Measuring Instrument: Digital voltmeter

Adjustment Procedure: Adjust the respective adjustment elements so that the voltage (absolute value) across the corresponding testpoints satisfies the specification.

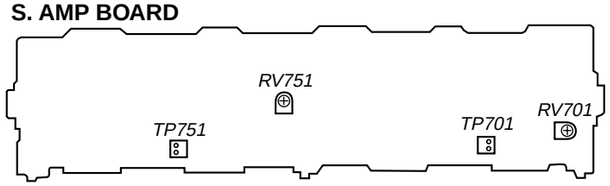
Channel	Test point	Adjustment element	Specification
FRONT L	TP501	RV501	6mV
FRONT R	TP551	RV551	
CENTER	TP601	RV601	
REAR L	TP701	RV701	
REAR R	TP751	RV751	

Adjustment Location:

MAIN BOARD

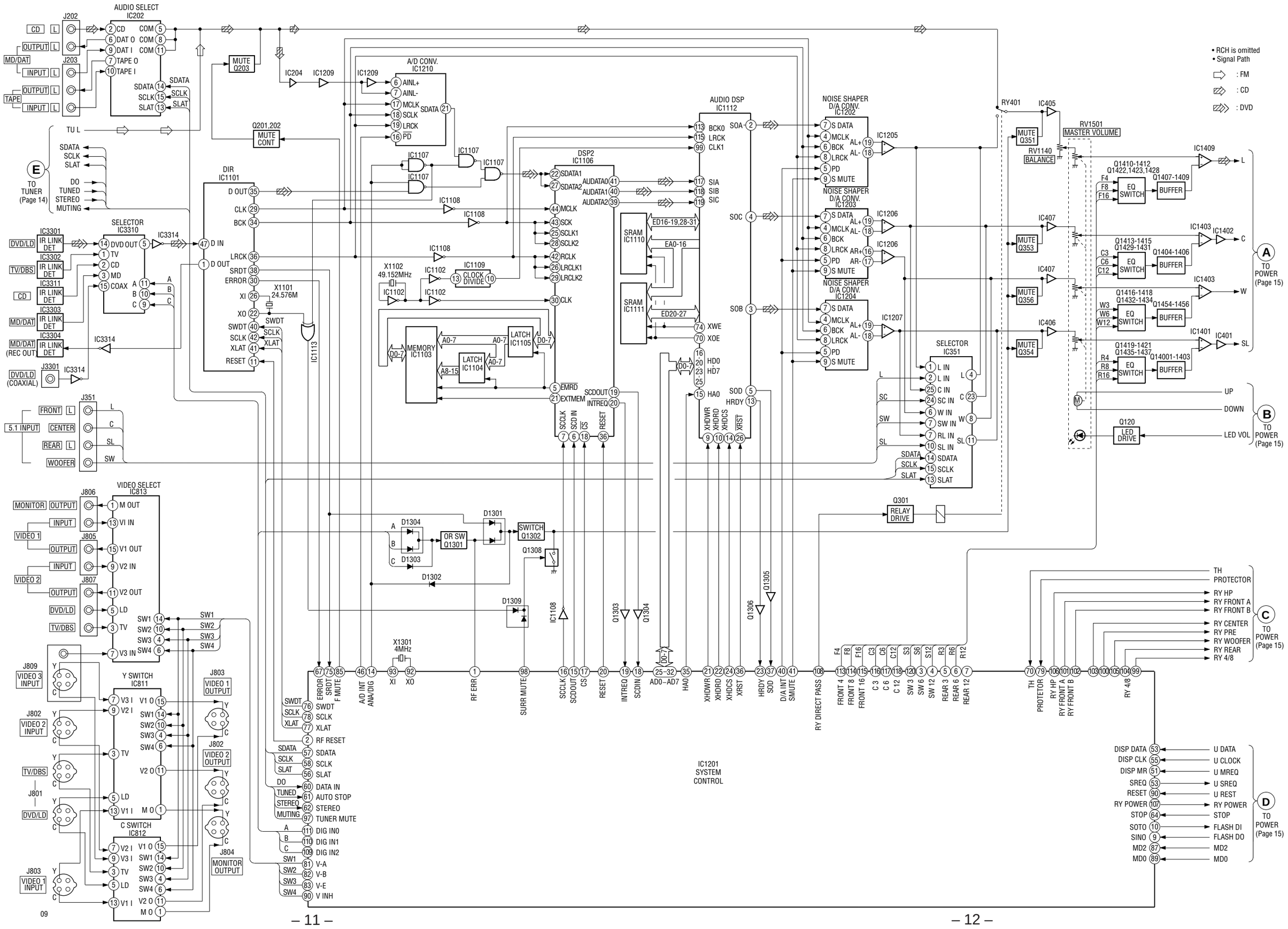


S. AMP BOARD

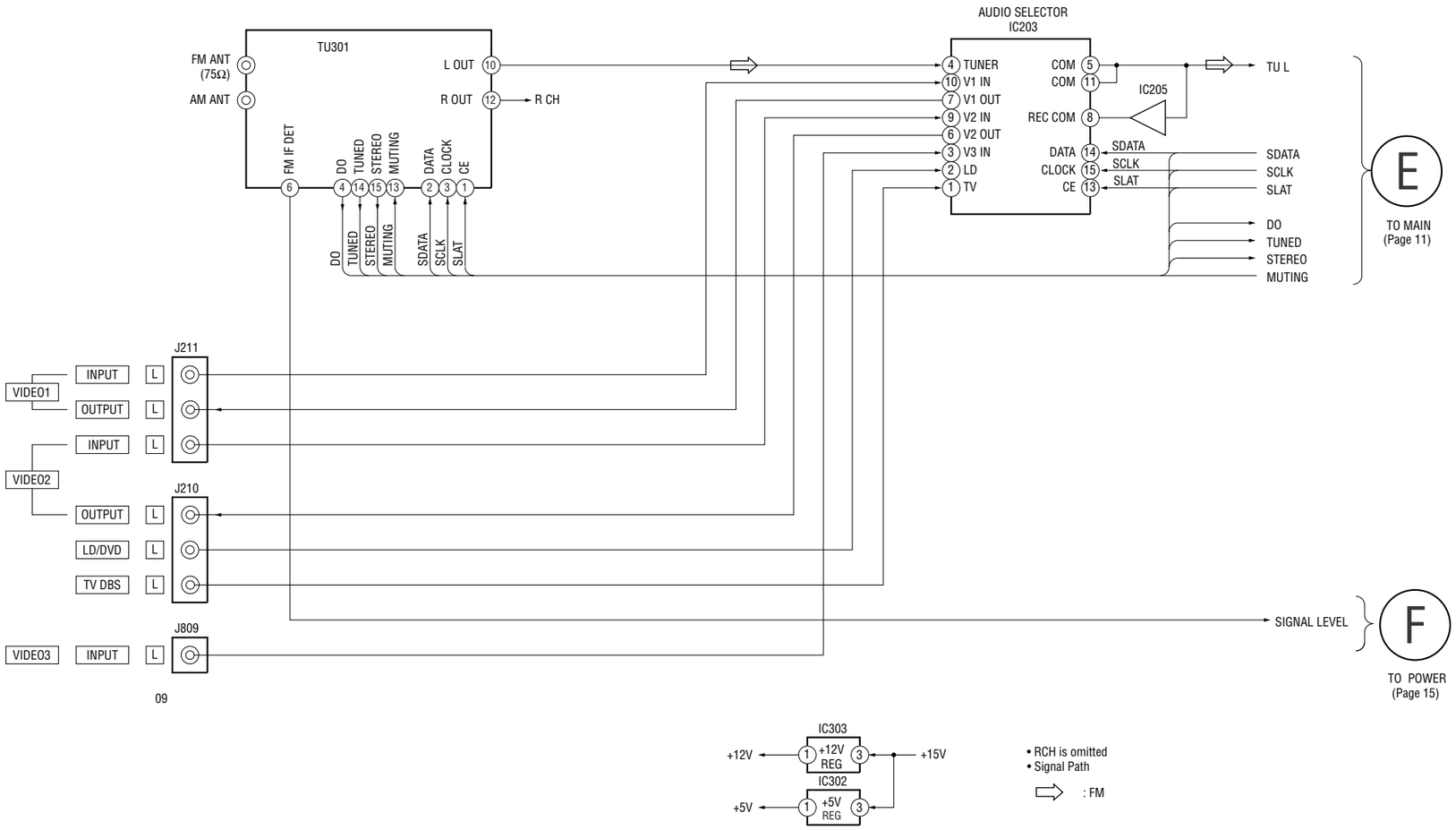


SECTION 5
DIAGRAMS

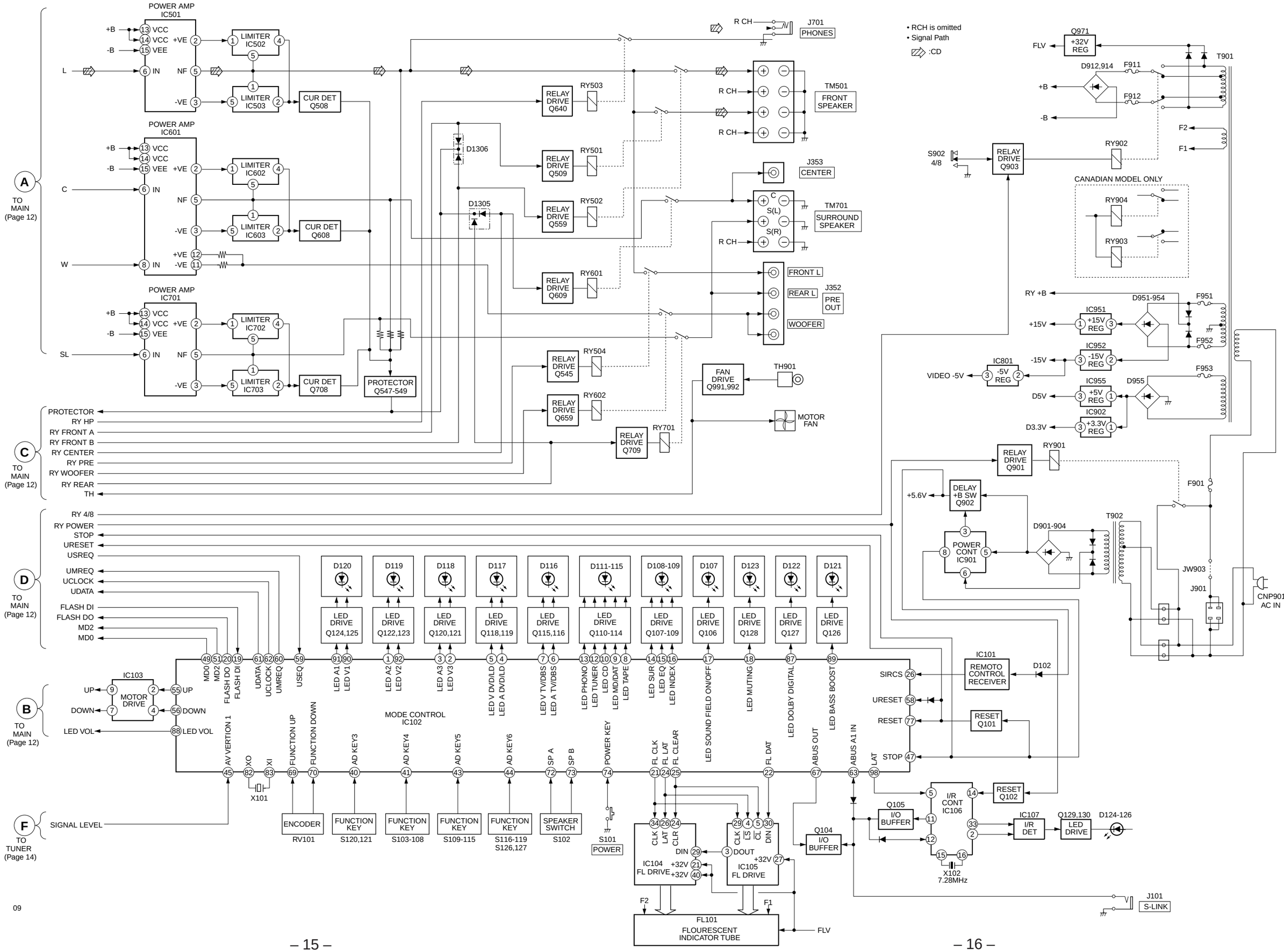
5-1. BLOCK DIAGRAM – MAIN SECTION –



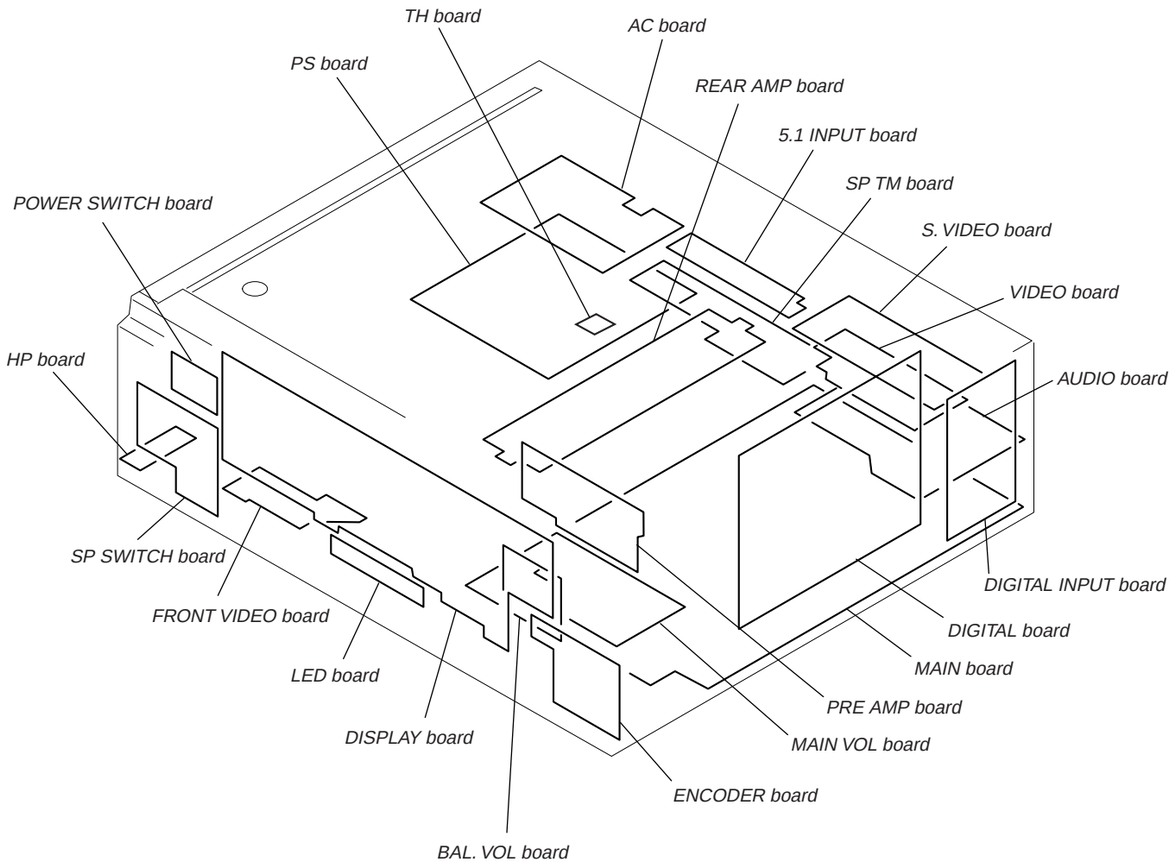
– TUNER SECTION –



– POWER SECTION –



5-2. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(IN ADDITION TO THIS NECESSARY NOTE IS PRINTED IN EACH BLOCK.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

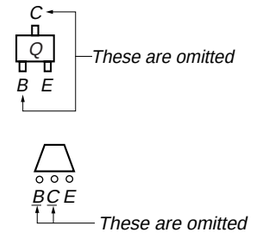
Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- B– : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions. No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  - : FM
  - : CD
  - : DIGITAL
  - : PHONO
- Abbreviation
  CND :Canadian

For printed wiring boards.

Note:

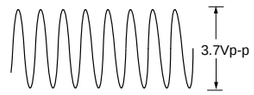
- : parts extracted from the component side.
- : Through hole.
- : Pattern from the side which enables seeing.



• Waveform

• DISPLAY SECTION

① IC106 ⑯ (X OUT)



7.28MHz

② IC102 ㉜ (XO)

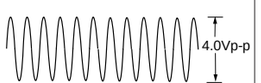
4MHz

• DIGITAL SECTION

① IC1201 ㉜ (XO)

4MHz

② IC1102 ⑧



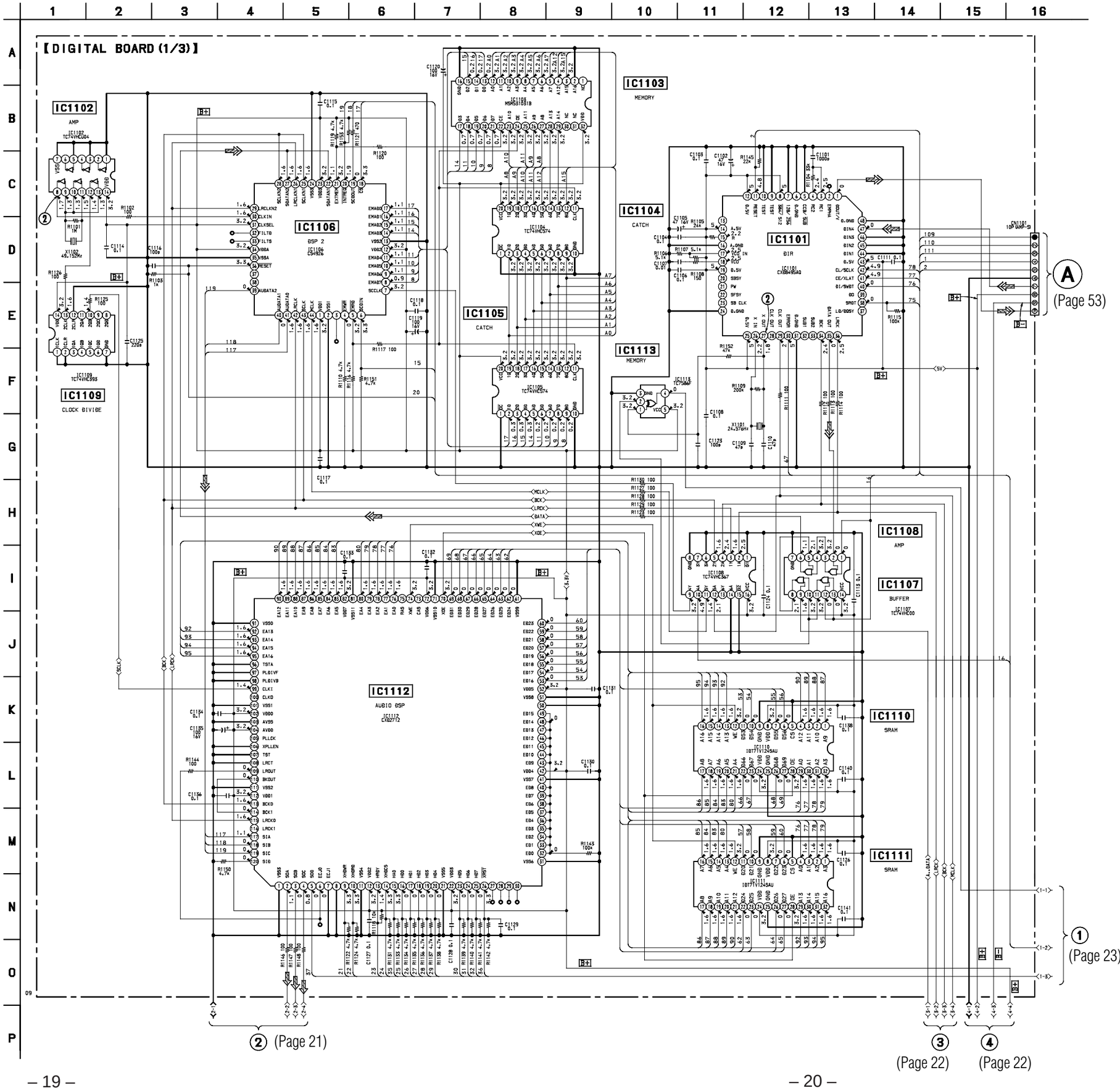
49.152MHz

③ IC1101 ㉗ (X OUT)

24.576MHz

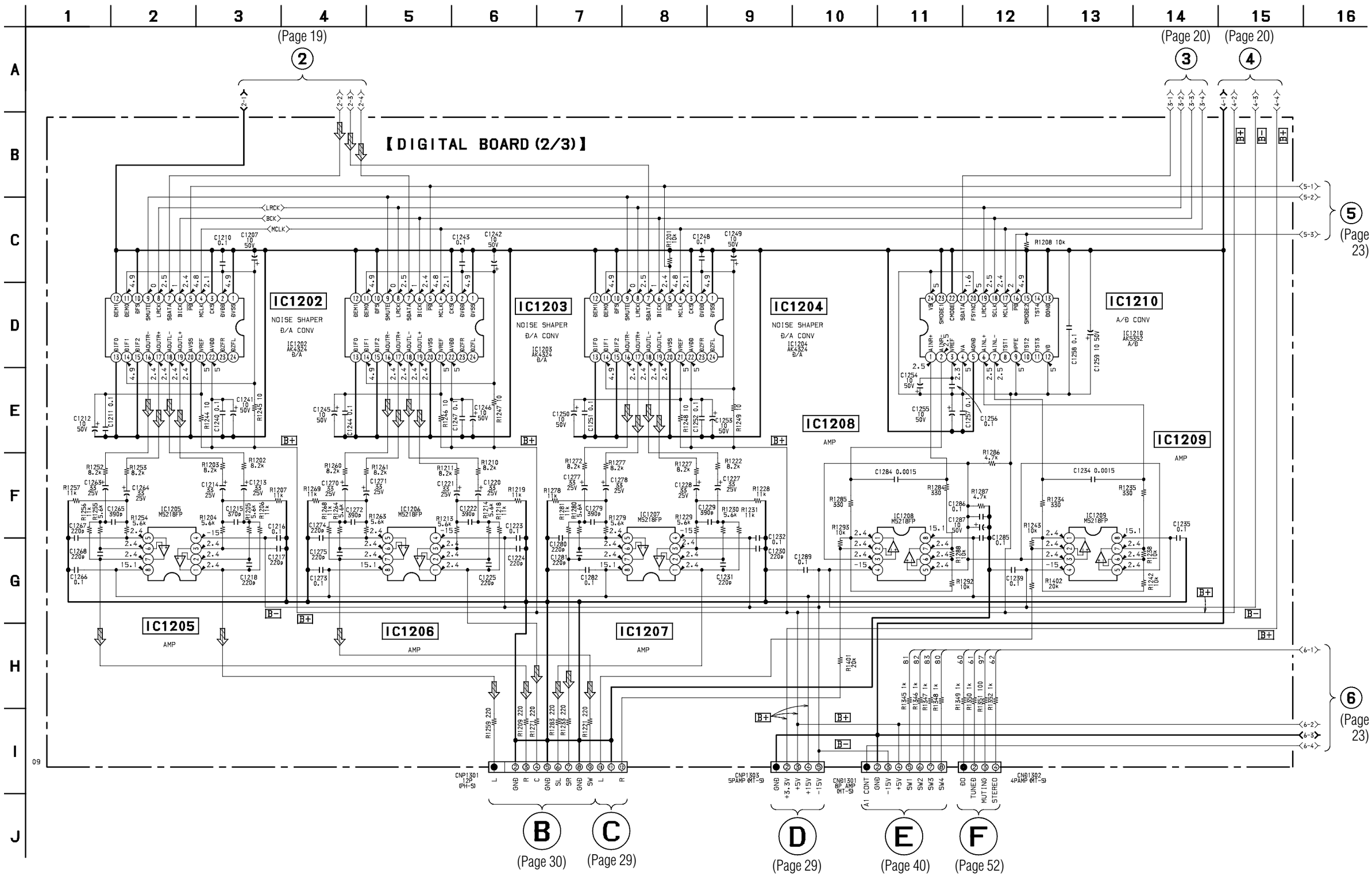
5-3. SCHEMATIC DIAGRAM – DIGITAL (1/3) SECTION –

- See page 18 for Waveforms.
- See page 25 for Printed Wiring Board.
- See page 59 for IC Block Diagrams.
- See page 68 for IC Pin Functions.



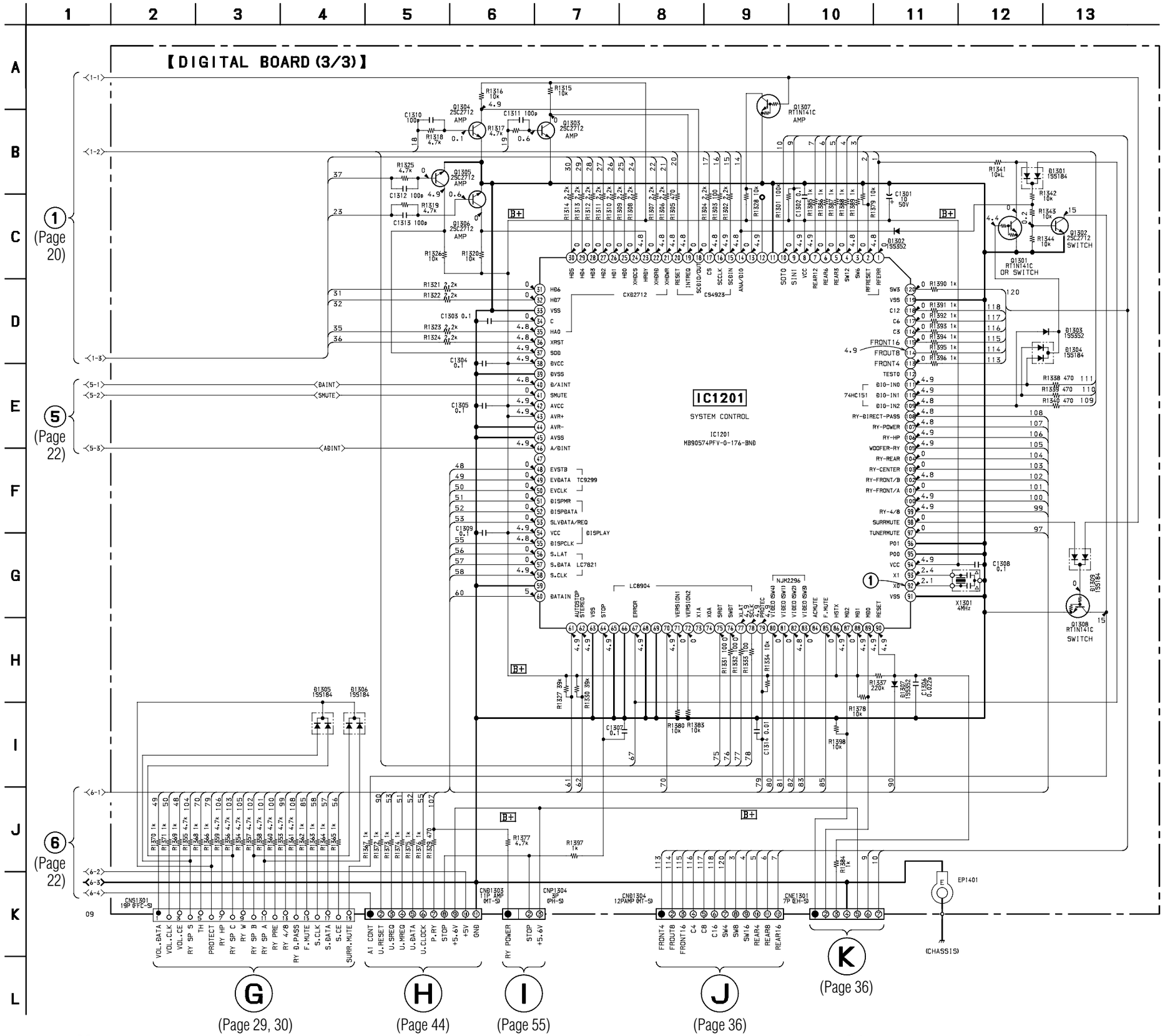
5-4. SCHEMATIC DIAGRAM – DIGITAL (2/3) SECTION –

- **See page 25 for Printed Wiring Board.**
- **See page 60 for IC Block Diagrams.**



5-5. SCHEMATIC DIAGRAM – DIGITAL (3/3) SECTION –

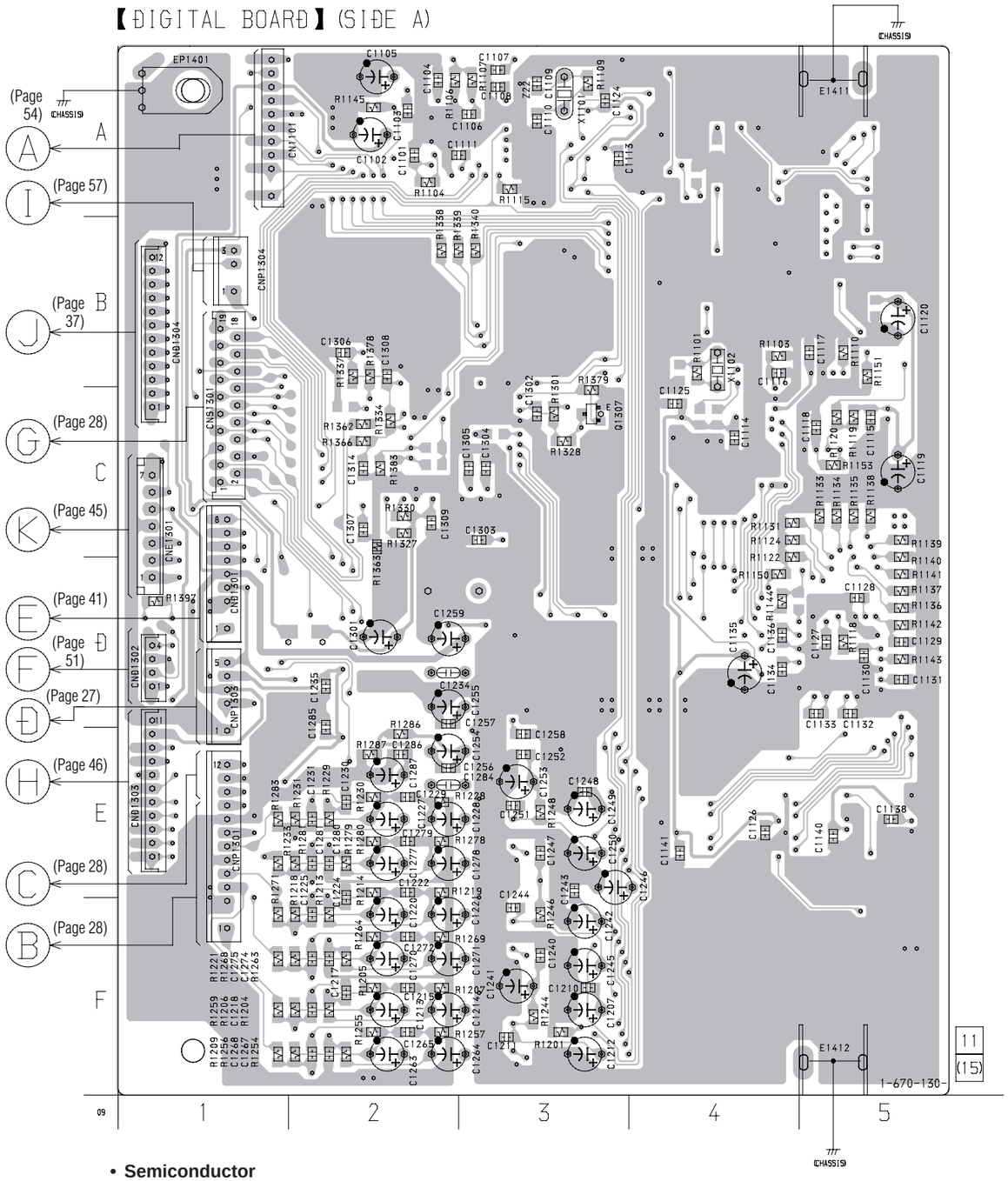
- See page 18 for Waveforms.
- See page 65 for IC Pin Functions.



5-6. PRINTED WIRING BOARD – DIGITAL SECTION –

• See page 17 for Circuit Boards Location.

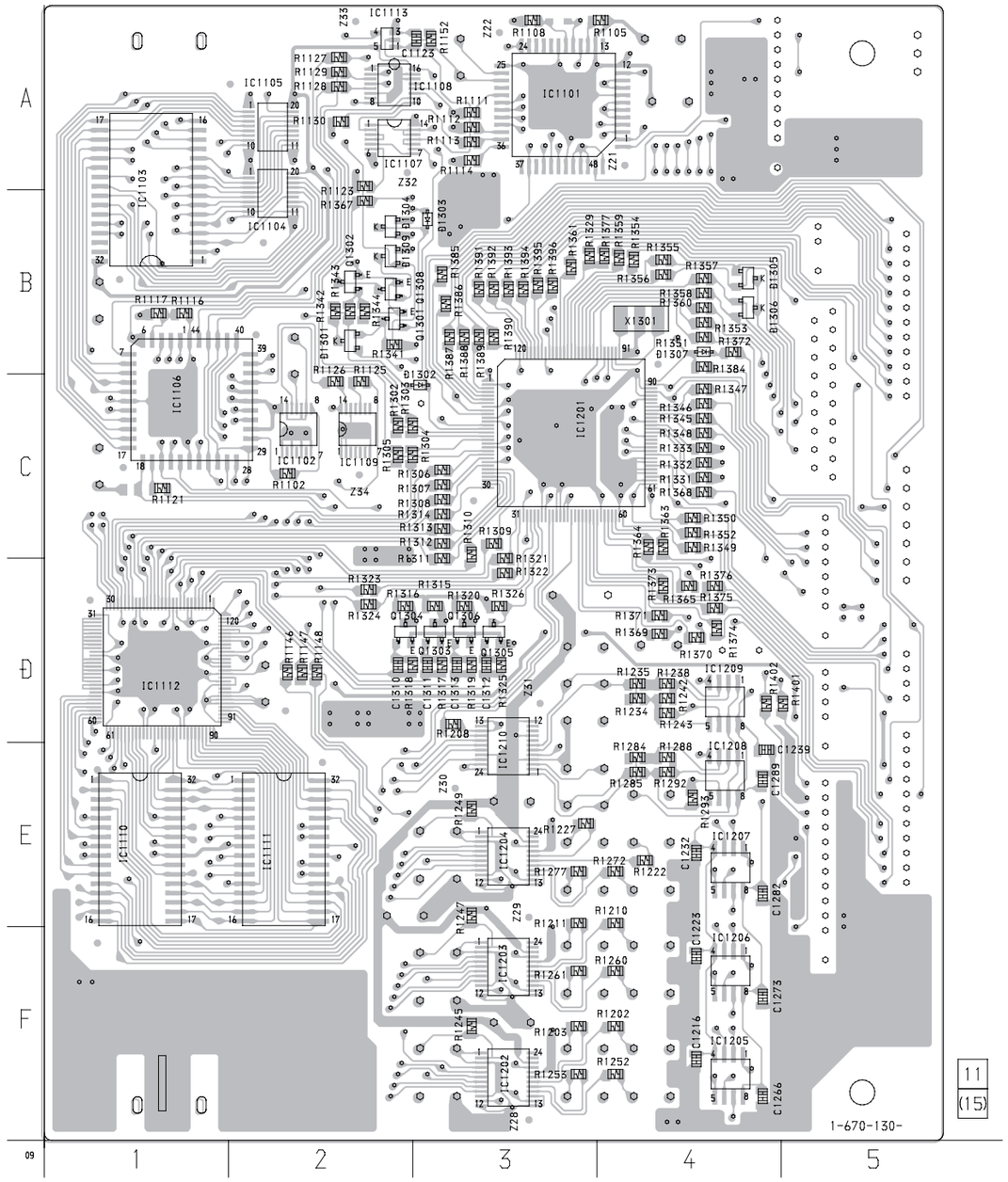
【DIGITAL BOARD】(SIDE A)



• **Semiconductor Location**

Ref. No.	Location
Q1307	C-3

【DIGITAL BOARD】(SIDE B)



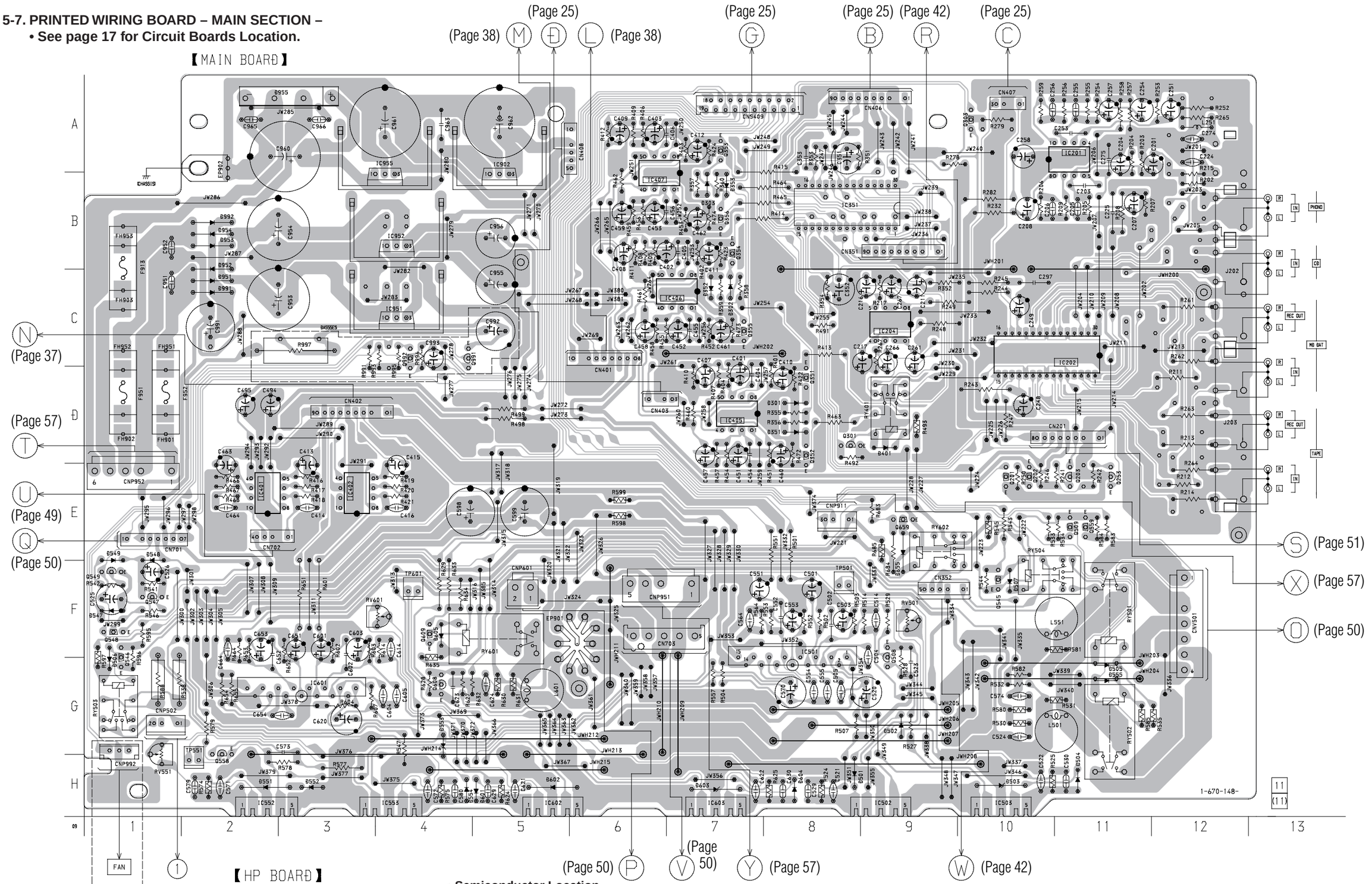
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1301	B-2	IC1103	A-1	IC1201	C-3	Q1301	B-2
D1302	C-3	IC1104	B-2	IC1202	F-3	Q1302	B-2
D1303	B-3	IC1105	A-2	IC1203	F-3	Q1303	D-3
D1304	B-2	IC1106	C-1	IC1204	E-3	Q1304	D-2
D1305	B-4	IC1107	A-2	IC1205	F-4	Q1305	D-3
D1306	B-4	IC1108	A-2	IC1206	F-4	Q1306	D-3
D1307	B-4	IC1109	C-2	IC1207	E-4	Q1308	B-2
D1309	B-2	IC1110	E-1	IC1208	E-4		
		IC1111	E-2	IC1209	D-4		
IC1101	A-3	IC1112	D-1	IC1210	D-3		
IC1102	C-2	IC1113	A-2				

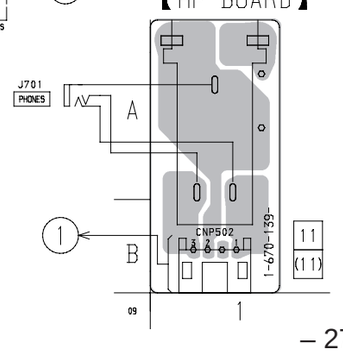
5-7. PRINTED WIRING BOARD – MAIN SECTION –

• See page 17 for Circuit Boards Location.

【MAIN BOARD】



【HP BOARD】

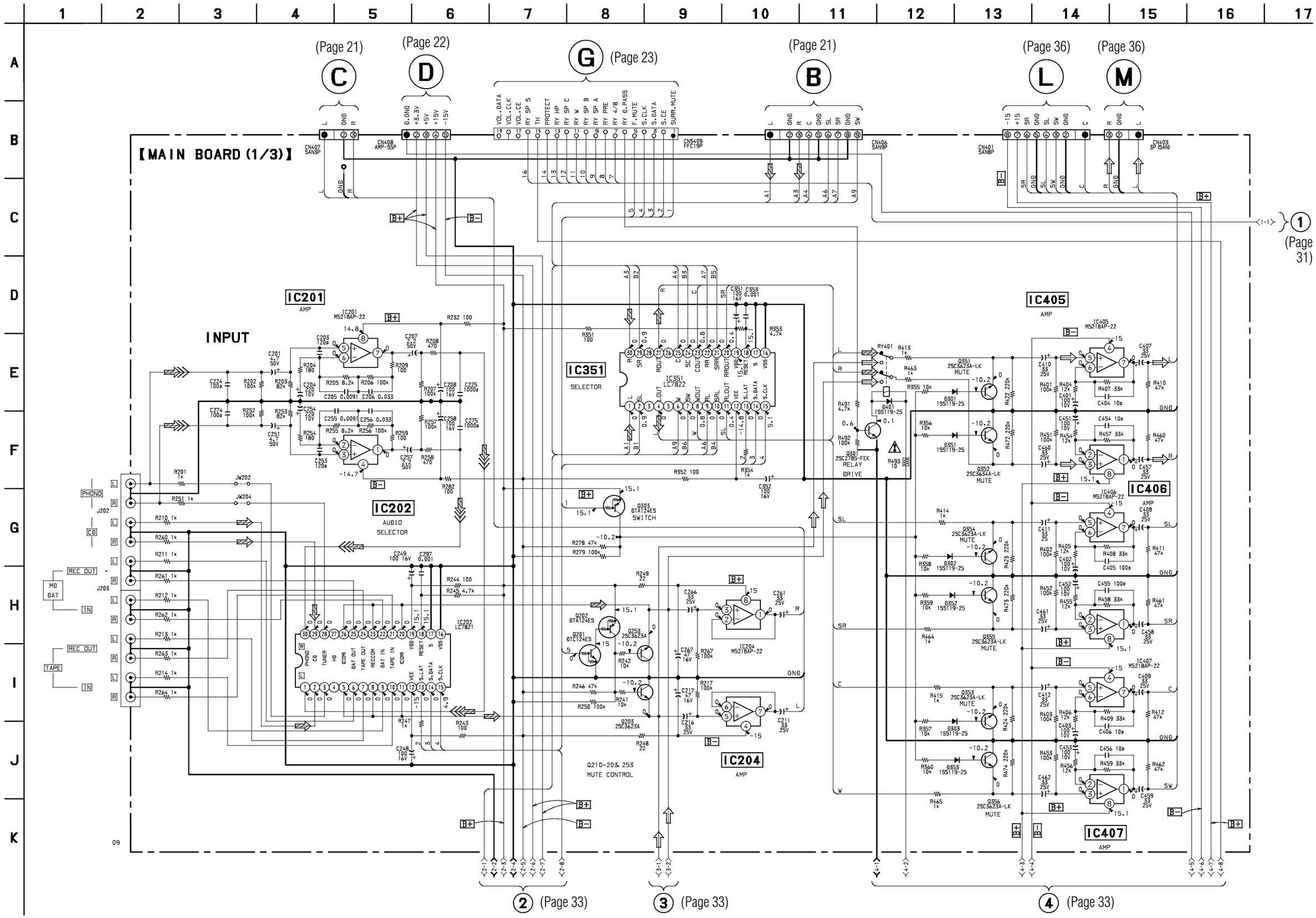


• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D301	D-8	D505	G-11	D601	H-6	D991	C-2	IC407	B-6	IC952	B-4	Q353	A-7	Q558	H-2
D302	C-7	D506	F-1	D602	H-5	D992	B-2	IC501	F-8	IC955	A-4	Q354	B-7	Q559	E-11
D303	B-7	D507	F-10	D603	H-7			IC502	H-9			Q355	C-7	Q608	G-4
D351	D-8	D547	F-1	D604	H-8	IC201	A-11	IC503	H-10	Q201	E-10	Q356	B-7	Q609	F-4
D352	C-7	D548	E-1	D605	F-4	IC202	C-11	IC552	H-2	Q202	E-10	Q508	F-9	Q659	E-9
D353	B-7	D549	E-1	D655	E-9	IC204	C-9	IC553	H-4	Q203	E-11	Q509	E-11	Q991	C-4
D401	D-9	D551	H-2	D951	C-2	IC351	B-8	IC601	G-3	Q253	E-11	Q545	F-10	Q992	C-4
D501	H-8	D552	H-3	D952	B-2	IC401	E-2	IC602	H-5	Q301	D-8	Q546	F-1		
D502	G-9	D553	G-4	D953	B-2	IC402	E-3	IC603	H-7	Q303	A-10	Q547	F-1		
D503	H-10	D554	H-4	D954	B-2	IC405	D-7	IC902	A-5	Q351	D-8	Q548	F-1		
D504	H-11	D555	G-11	D955	A-2	IC406	C-7	IC951	C-4	Q352	D-8	Q549	F-1		

5-8. SCHEMATIC DIAGRAM – MAIN (1/3) SECTION –

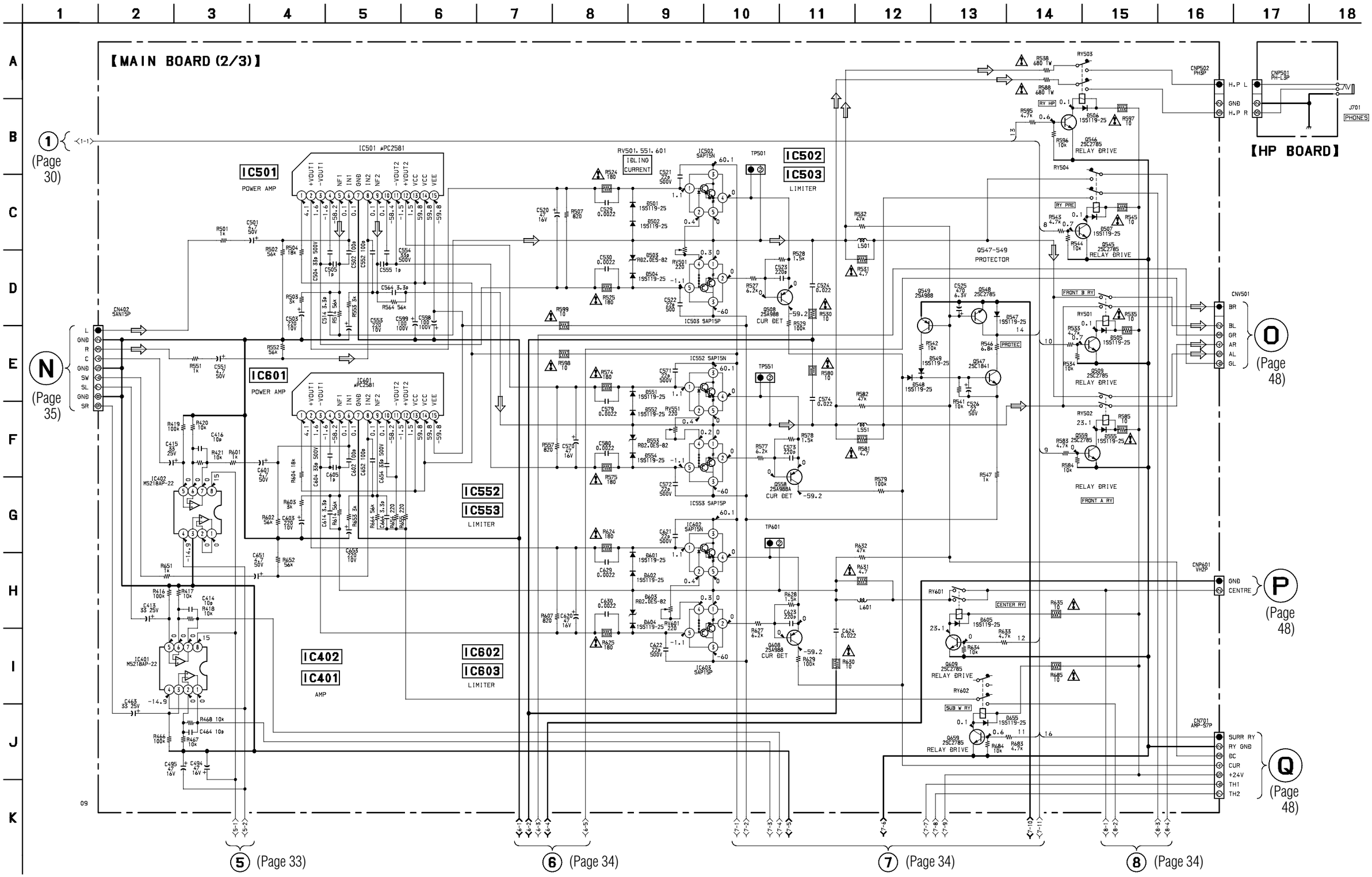
• See page 61 for IC Block Diagrams.



(Page 2) (Page 3) (Page 4)

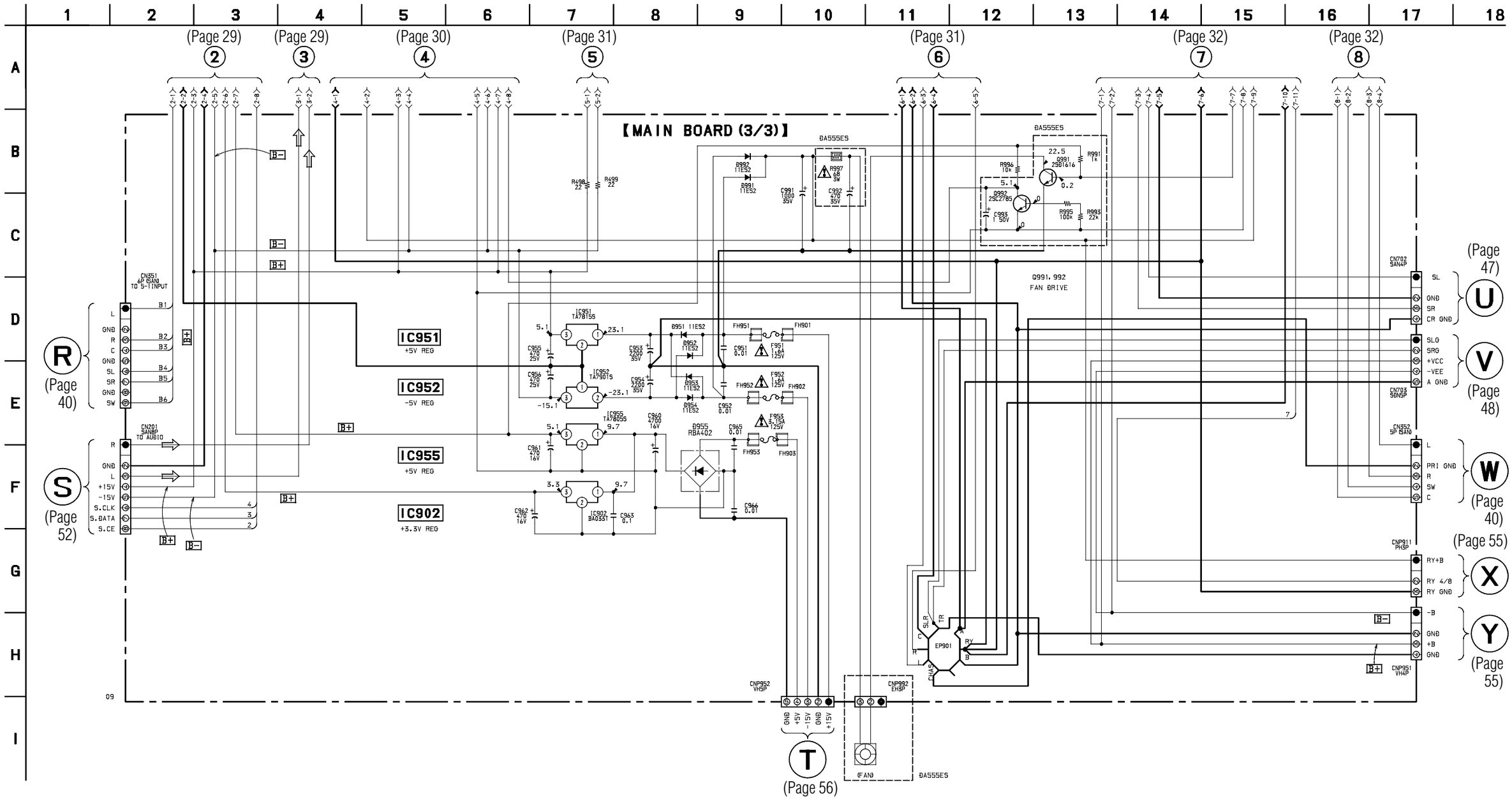
5-9. SCHEMATIC DIAGRAM – MAIN (2/3) SECTION –

- See page 27 for Printed Wiring Board.
- See page 61 for IC Block Diagrams.

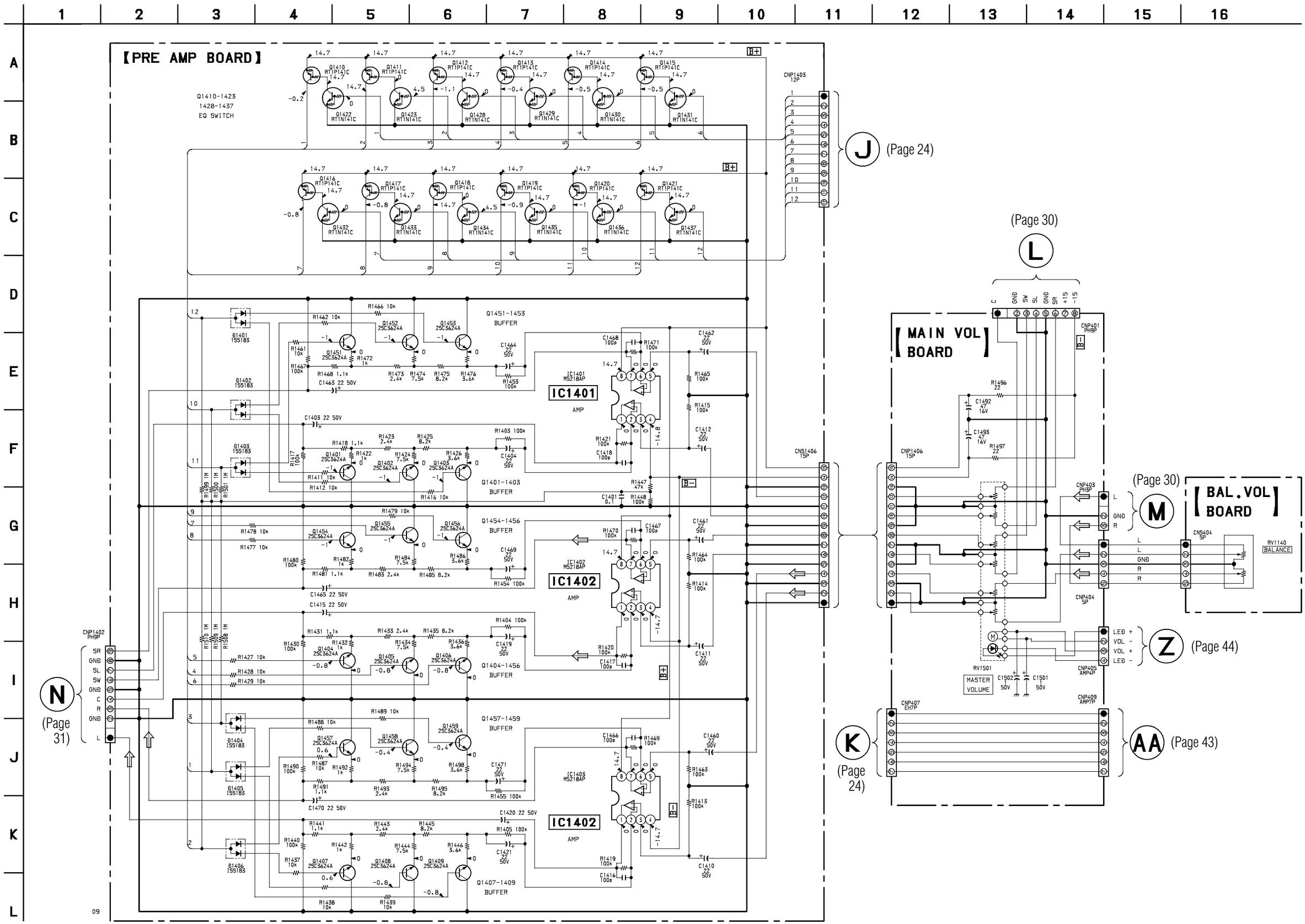


5-10. SCHEMATIC DIAGRAM – MAIN (3/3) SECTION –

• See page 27 for Printed Wiring Board.



5-11. SCHEMATIC DIAGRAM – AMP SECTION –



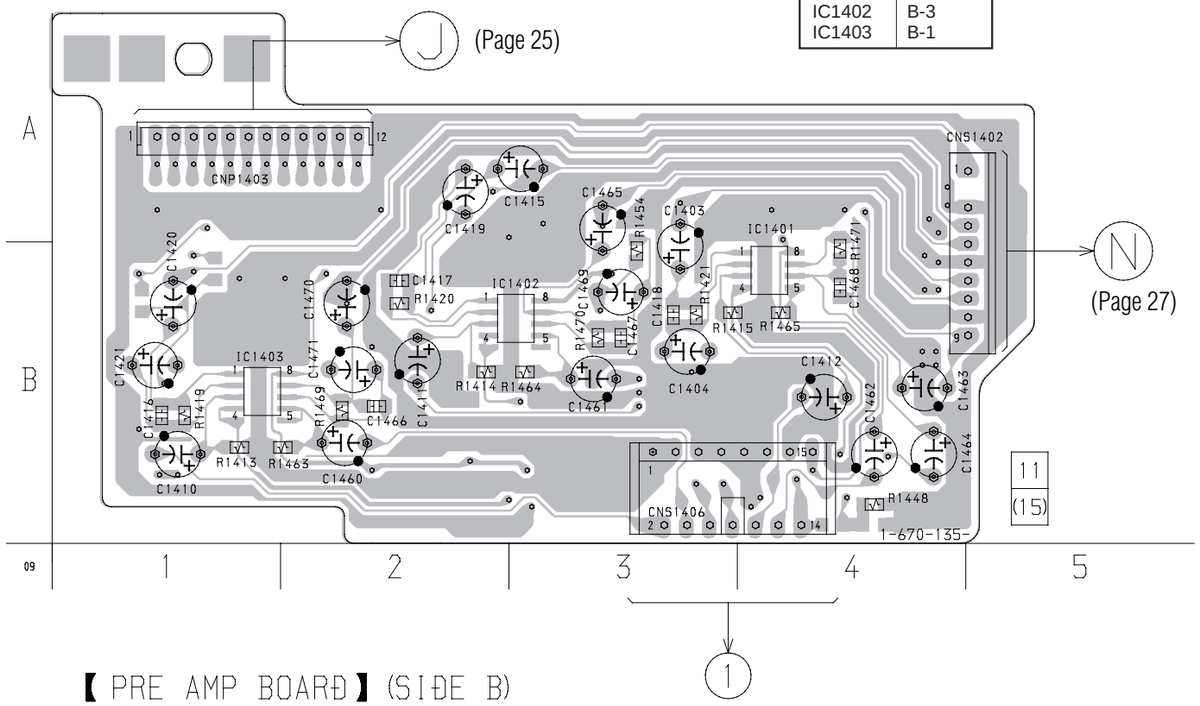
5-12. PRINTED WIRING BOARD – AMP SECTION –

• See page 17 for Circuit Boards Location.

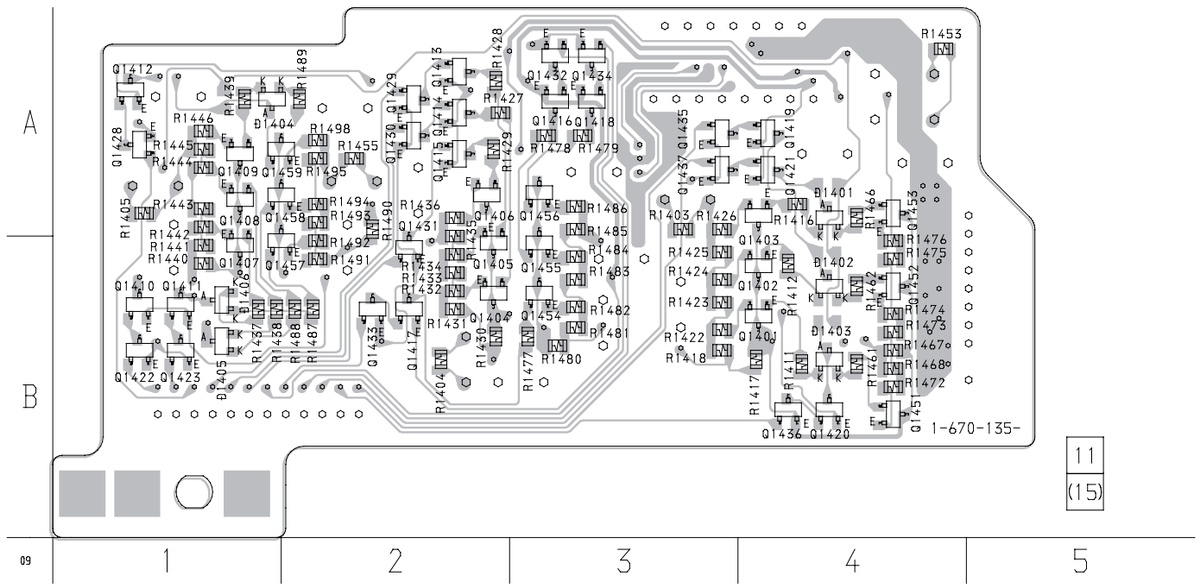
• **Semiconductor Location**

Ref. No.	Location
IC1401	B-4
IC1402	B-3
IC1403	B-1

【PRE AMP BOARD】(SIDE A)



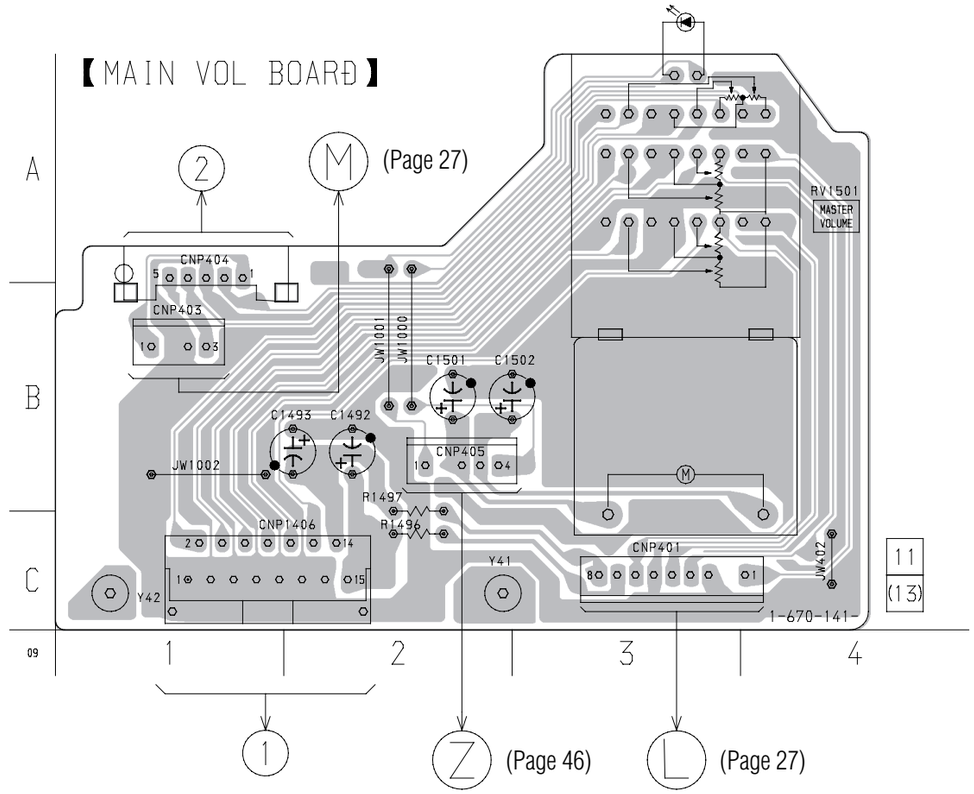
【PRE AMP BOARD】(SIDE B)



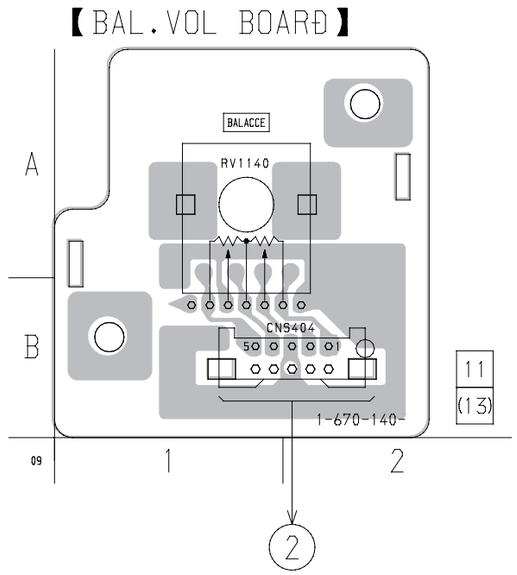
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1401	A-4	Q1405	B-2	Q1416	A-3	Q1431	A-2	Q1455	B-3
D1402	B-4	Q1406	A-2	Q1417	B-2	Q1432	A-3	Q1456	A-3
D1403	B-4	Q1407	B-1	Q1418	A-3	Q1433	B-2	Q1457	B-2
D1404	A-1	Q1408	A-1	Q1419	A-4	Q1434	A-3	Q1458	A-2
D1405	B-1	Q1409	A-1	Q1420	B-4	Q1435	A-3	Q1459	A-2
D1406	B-1	Q1410	B-1	Q1421	A-4	Q1436	B-4		
		Q1411	B-1	Q1422	B-1	Q1437	A-3		
Q1401	B-4	Q1412	A-1	Q1423	B-1	Q1451	B-4		
Q1402	B-4	Q1413	A-2	Q1428	A-1	Q1452	B-4		
Q1403	A-4	Q1414	A-2	Q1429	A-2	Q1453	A-4		
Q1404	B-2	Q1415	A-2	Q1430	A-2	Q1454	B-3		

【MAIN VOL BOARD】

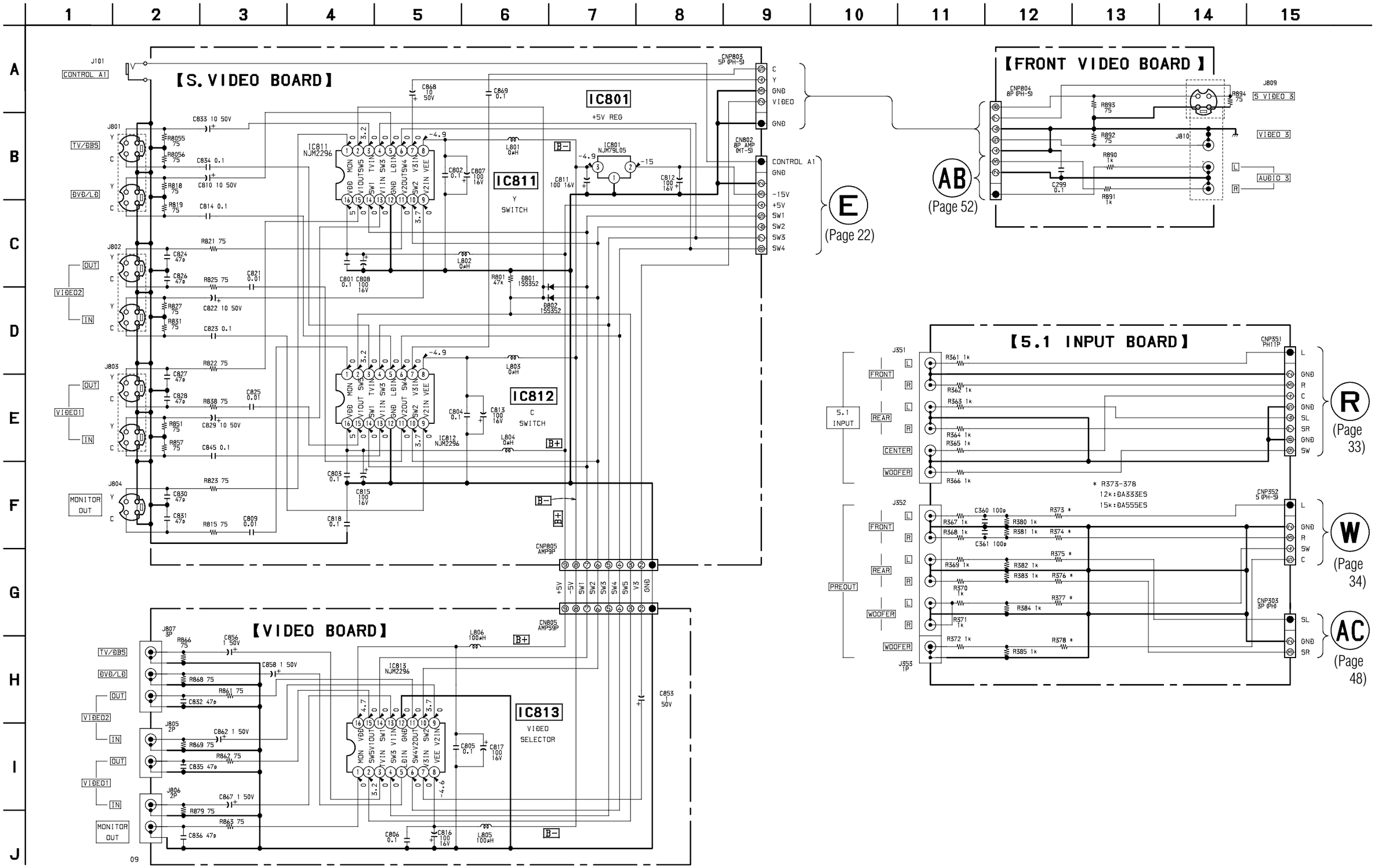


【BAL.VOL BOARD】



5-13. SCHEMATIC DIAGRAM – VIDEO SECTION –

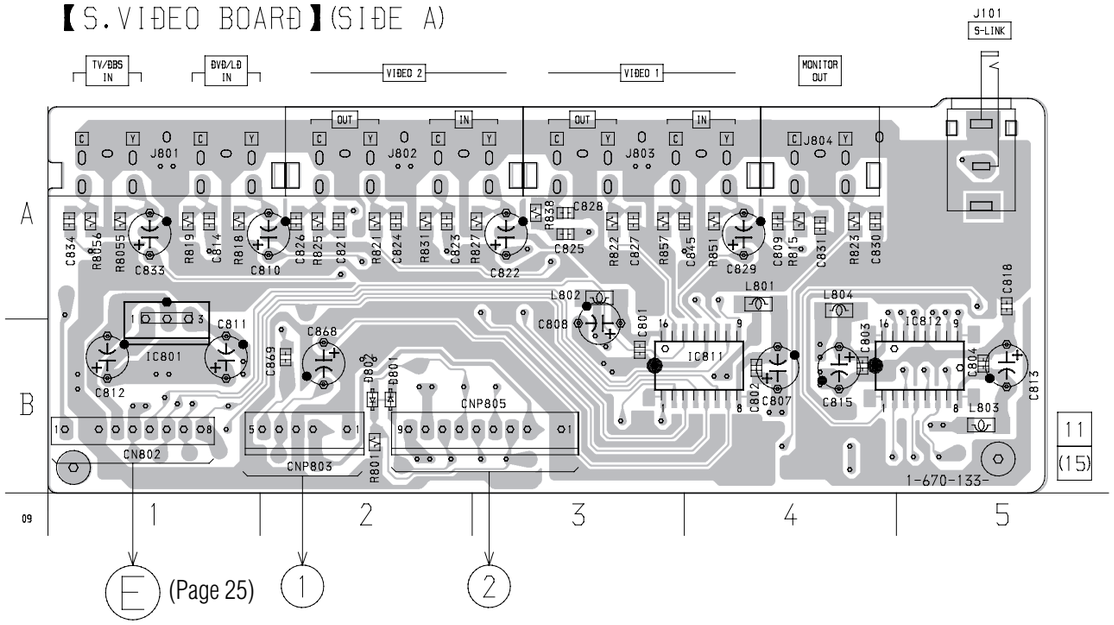
• See page 62 for IC Block Diagrams.



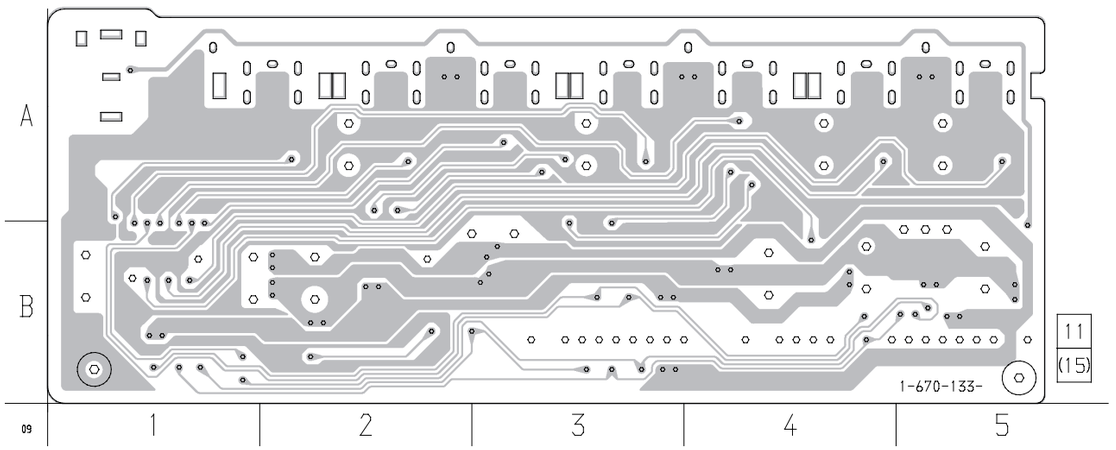
5-14. PRINTED WIRING BOARD – VIDEO SECTION –

• See page 17 for Circuit Boards Location.

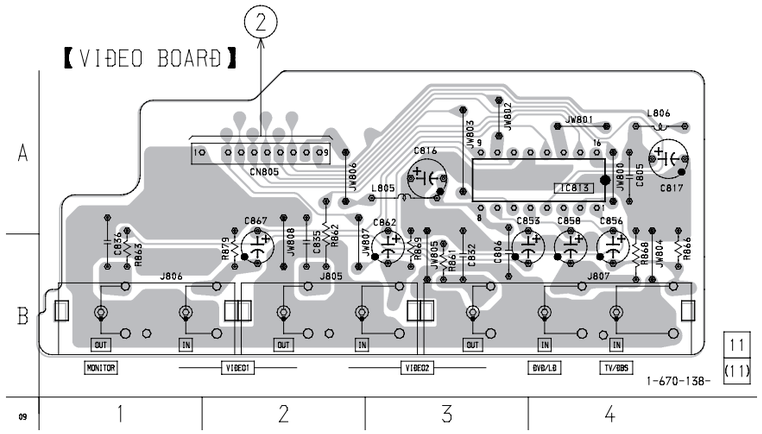
【S.VIÐEO BOARÐ】(SIÐE A)



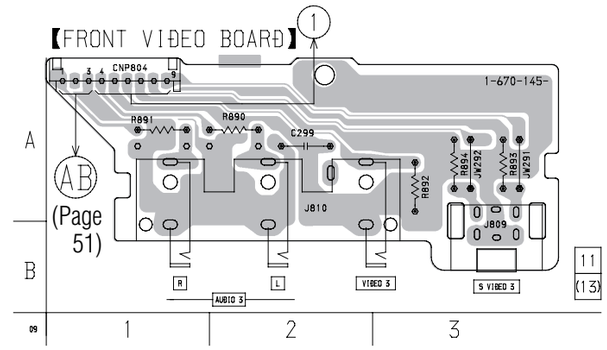
【S.VIÐEO BOARÐ】(SIÐE B)



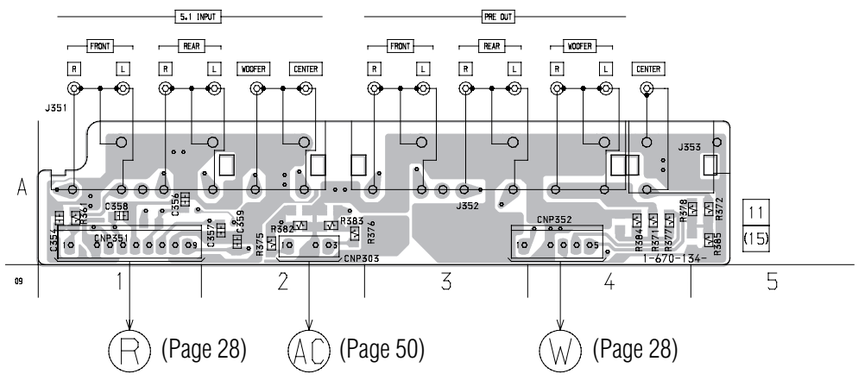
【VIÐEO BOARÐ】



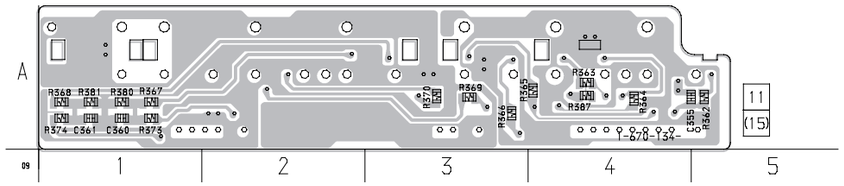
【FRONT VIÐEO BOARÐ】



【5.1 INPUT BOARÐ】(SIÐE A)

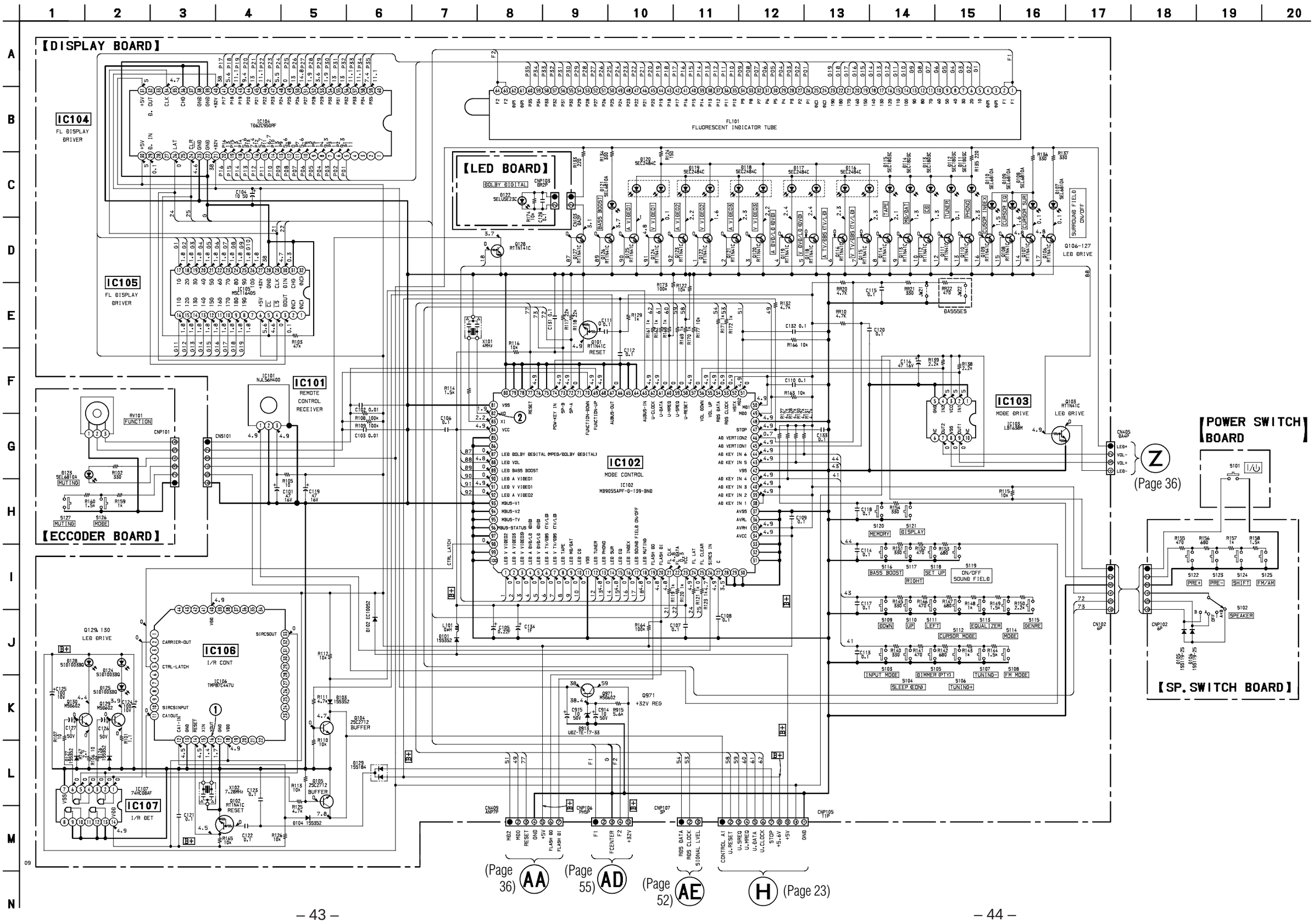


【5.1 INPUT BOARÐ】(SIÐE B)



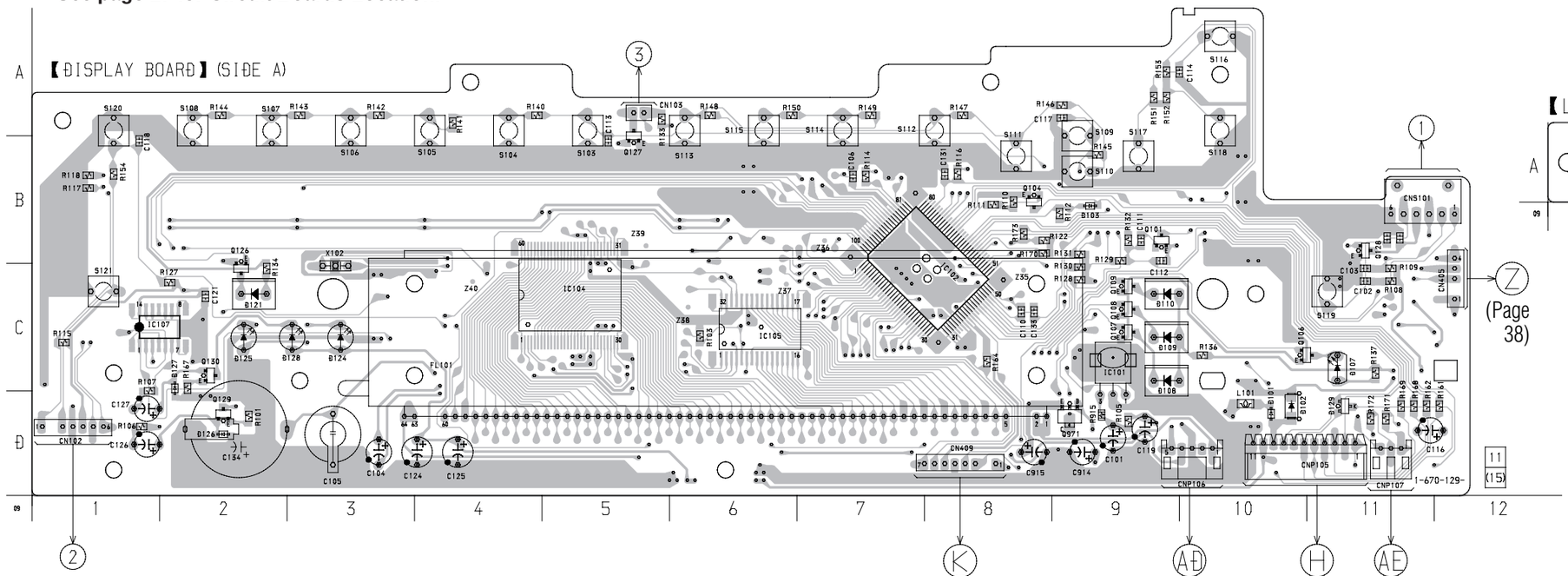
5-15. SCHEMATIC DIAGRAM – DISPLAY SECTION –

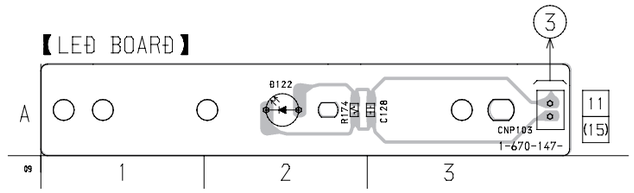
- See page 18 for Waveforms.
- See page 61 for IC Block Diagrams.
- See page 63 for IC Pin Functions.

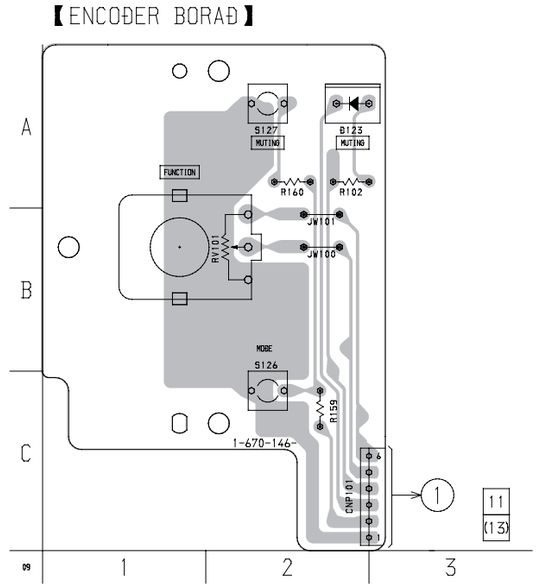


5-16. PRINTED WIRING BOARD – DISPLAY SECTION –

• See page 17 for Circuit Boards Location.

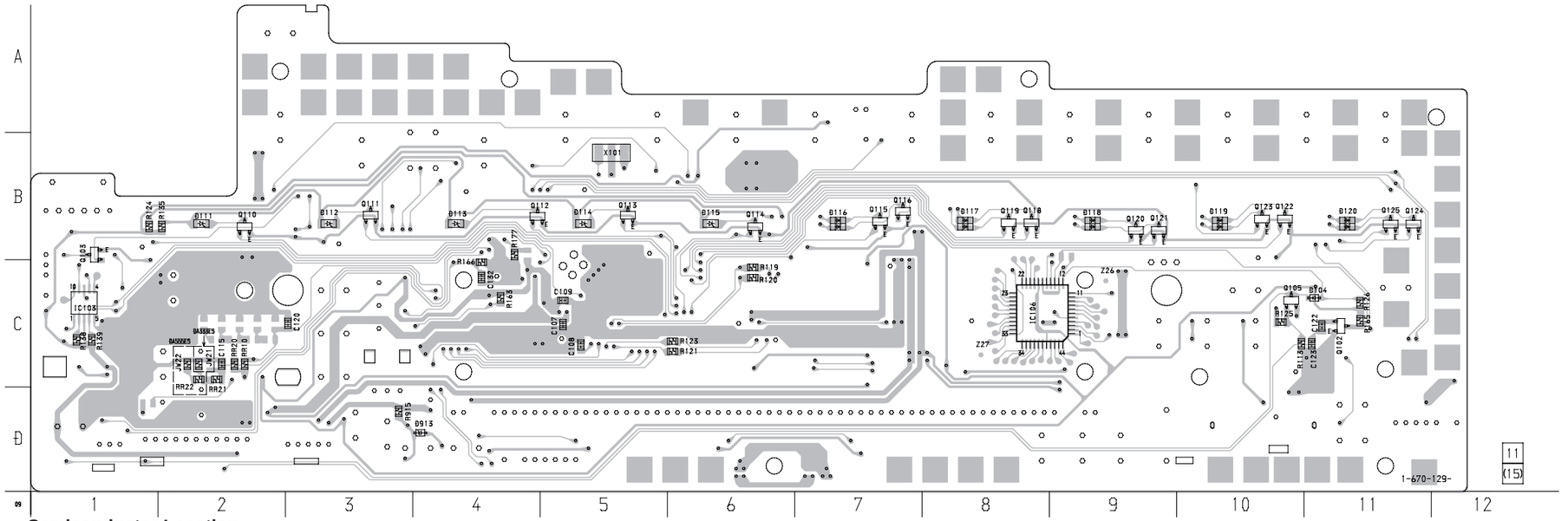


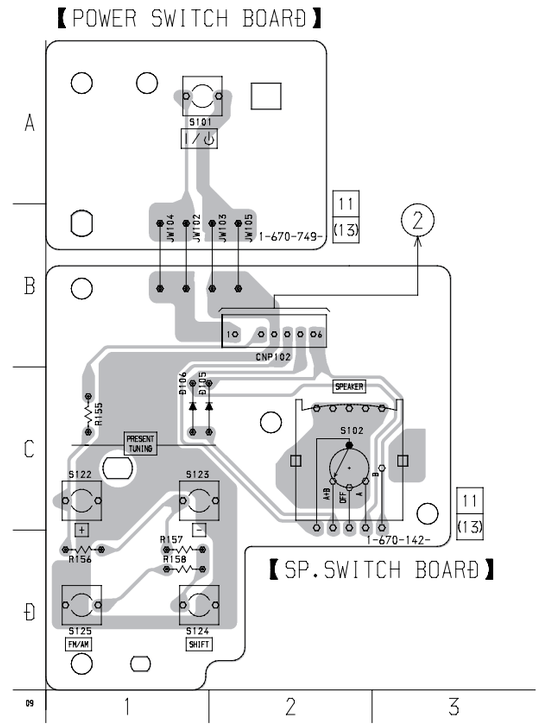




• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D101	D-10	D121	C-2	IC101	C-9	Q104	B-8	Q128	B-11
D102	D-10	D124	C-3	IC102	C-8	Q106	C-10	Q129	D-2
D103	B-9	D125	C-2	IC104	C-5	Q107	C-9	Q130	C-2
D107	D-11	D126	D-2	IC105	C-6	Q108	C-9	Q971	D-9
D108	C-9	D127	C-2	IC107	C-1	Q109	C-9		
D109	C-9	D128	C-3			Q126	C-2		
D110	C-9	D129	D-11	Q101	B-9	Q127	B-5		



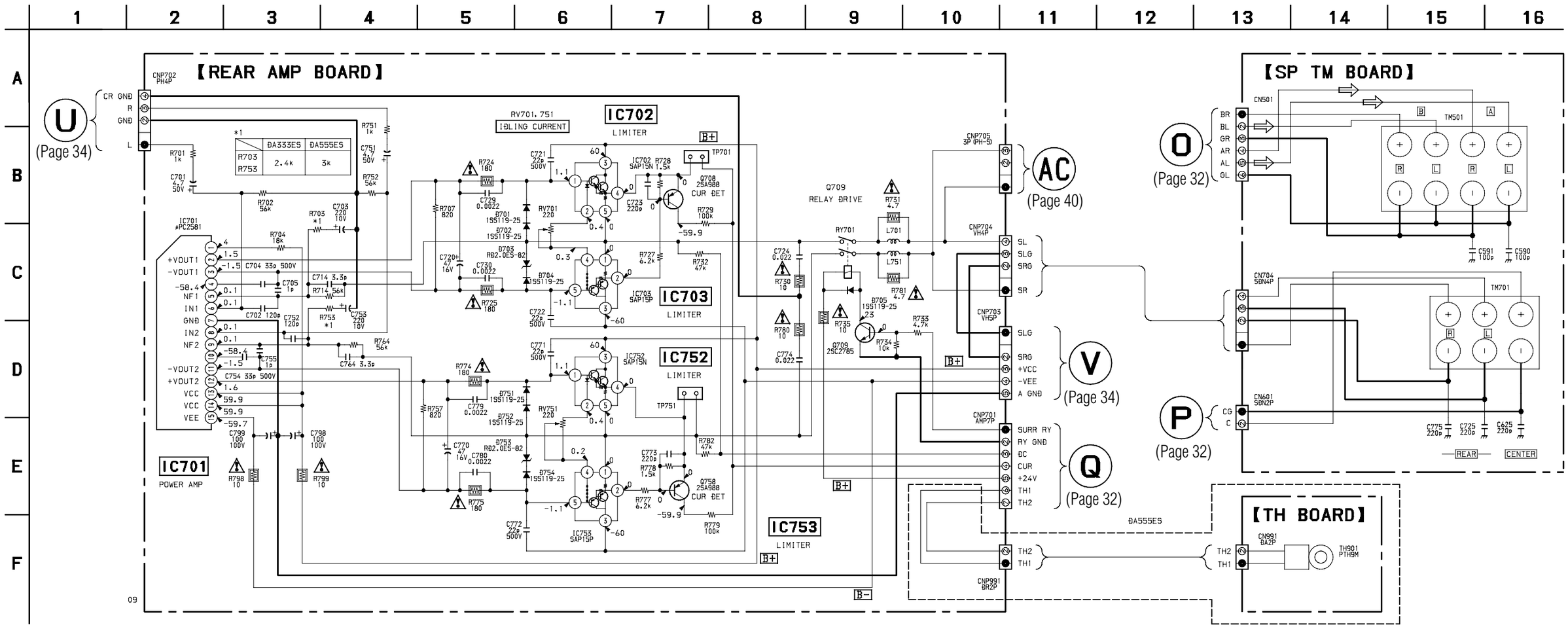


• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D104	C-11	D117	B-8	IC106	C-8	Q112	B-4	Q120	B-9
D111	B-2	D118	B-9			Q113	B-5	Q121	B-9
D112	B-3	D119	B-10	Q102	C-11	Q114	B-6	Q122	B-10
D113	B-4	D120	B-11	Q103	B-1	Q115	B-7	Q123	B-10
D114	B-5	D913	D-4	Q105	C-10	Q116	B-7	Q124	B-11
D115	B-6			Q110	B-2	Q118	D-9	Q125	B-11
D116	B-7	IC103	C-1	Q111	B-3	Q119	B-8		

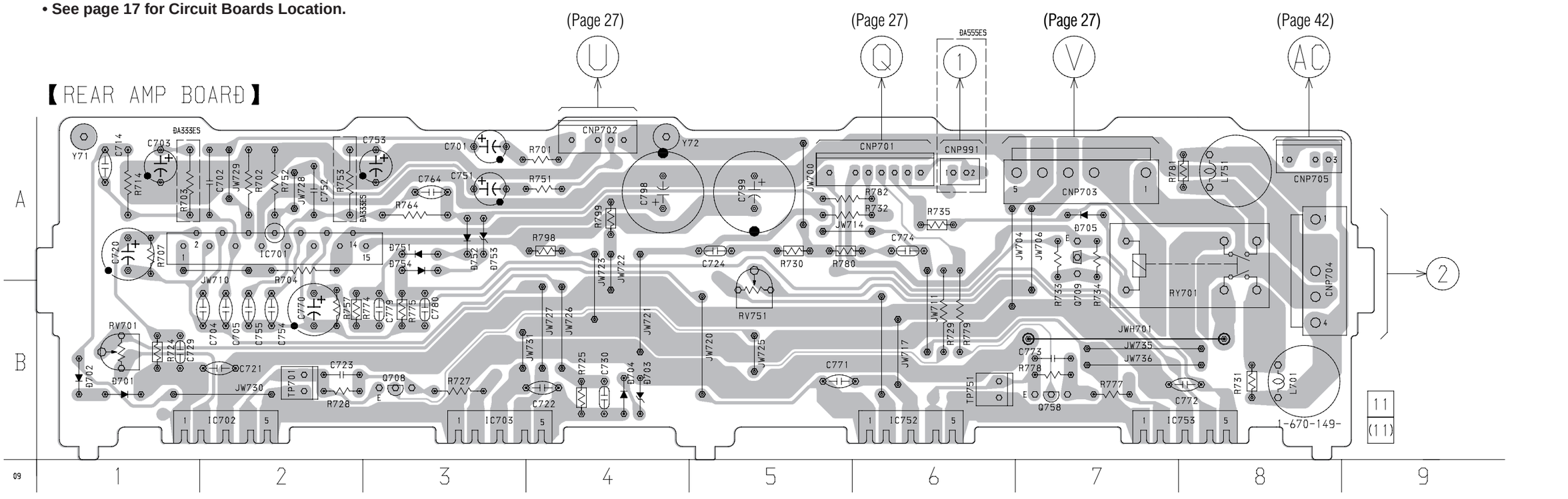
5-17. SCHEMATIC DIAGRAM – SPEAKER SECTION –

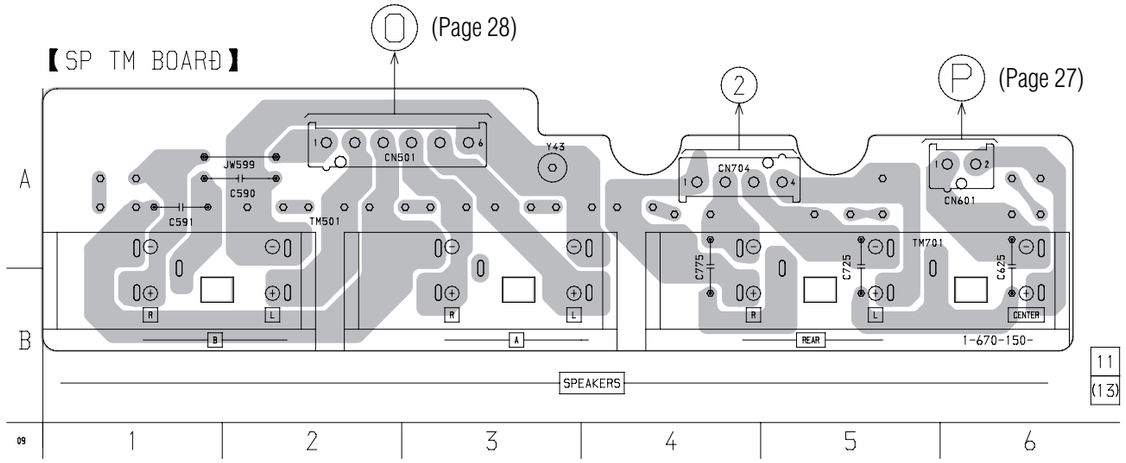
• See page 61 for IC Block Diagrams.

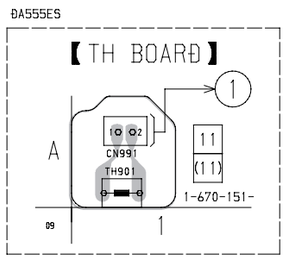


5-18. PRINTED WIRING BOARD – SPEAKER SECTION –

• See page 17 for Circuit Boards Location.





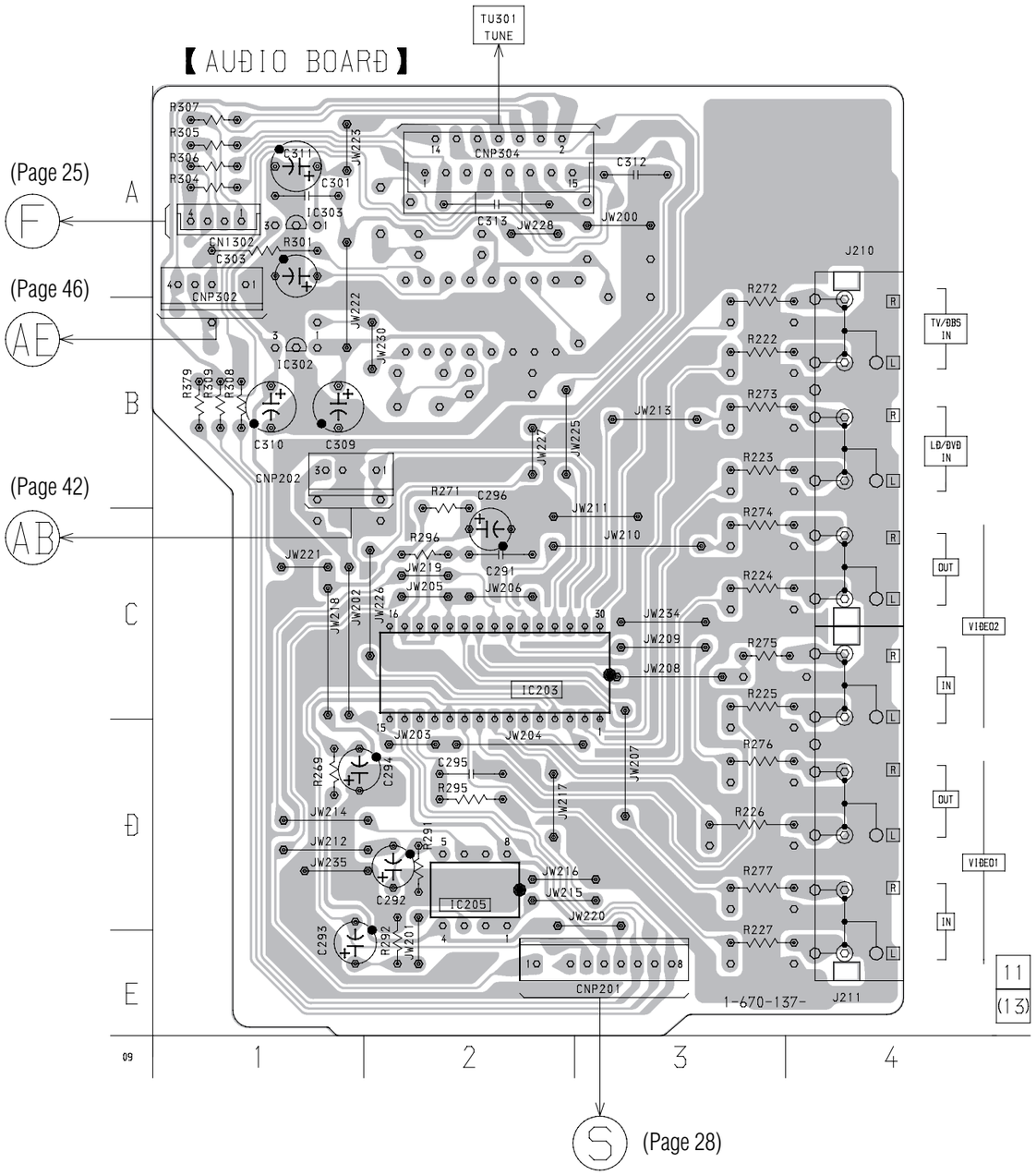


- **Semiconductor Location**

Ref. No.	Location
D701	B-1
D702	B-1
D703	B-4
D705	A-7
D751	A-3
D752	A-3
D753	A-3
D754	A-3
IC701	A-2
IC702	B-2
IC703	B-3
IC752	B-6
IC753	B-7
Q708	B-3
Q709	A-7
Q759	B-7

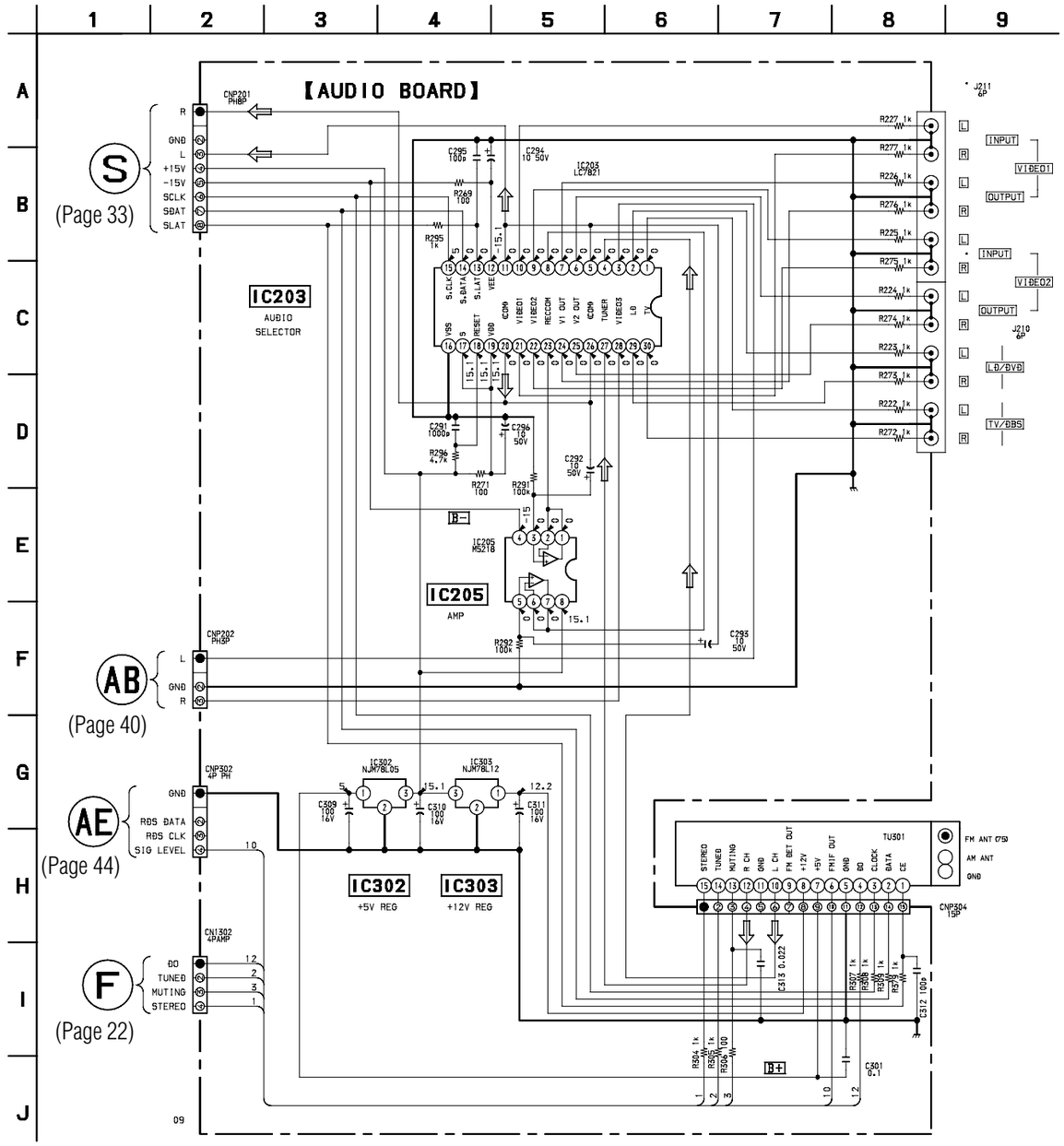
5-19. PRINTED WIRING BOARD – AUDIO SECTION –

• See page 17 for Circuit Boards Location.

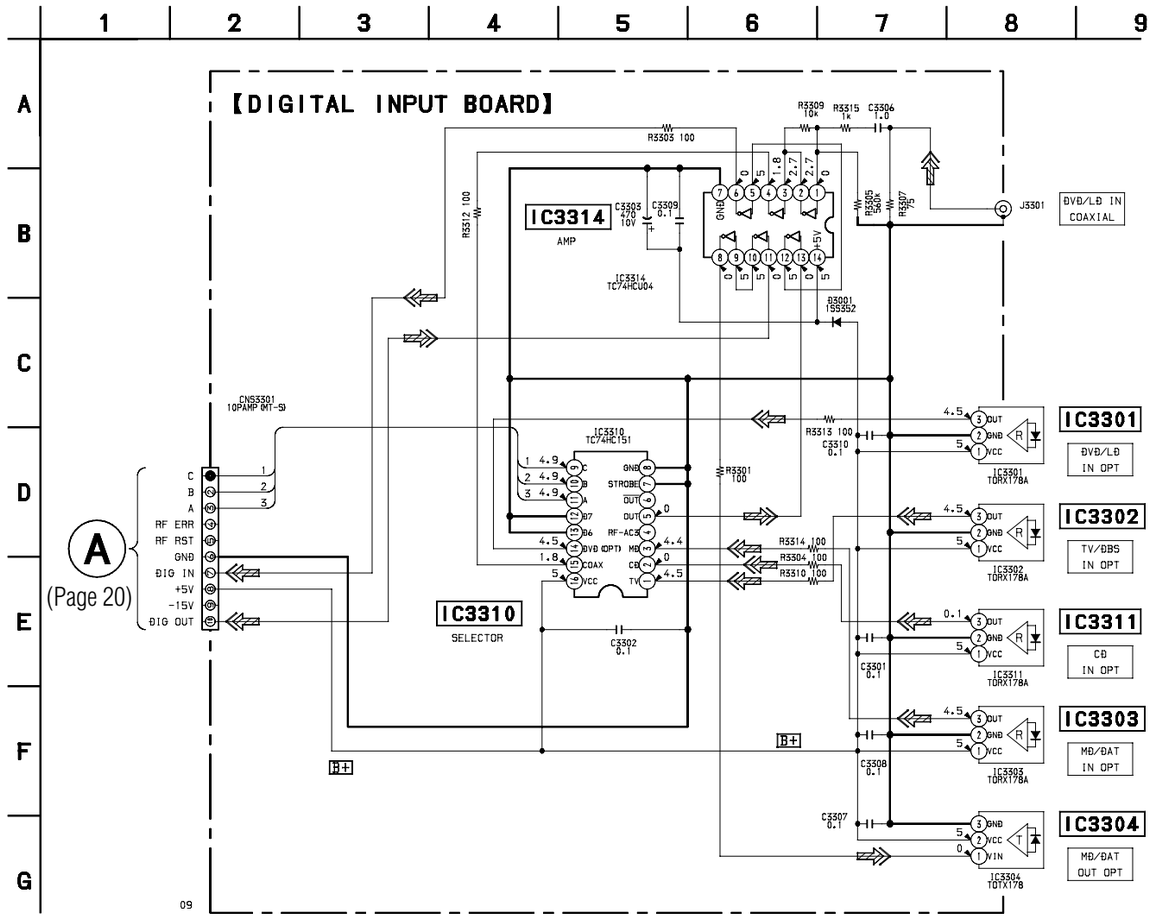


5-20. SCHEMATIC DIAGRAM – AUDIO SECTION –

• See page 61 for IC Block Diagrams.



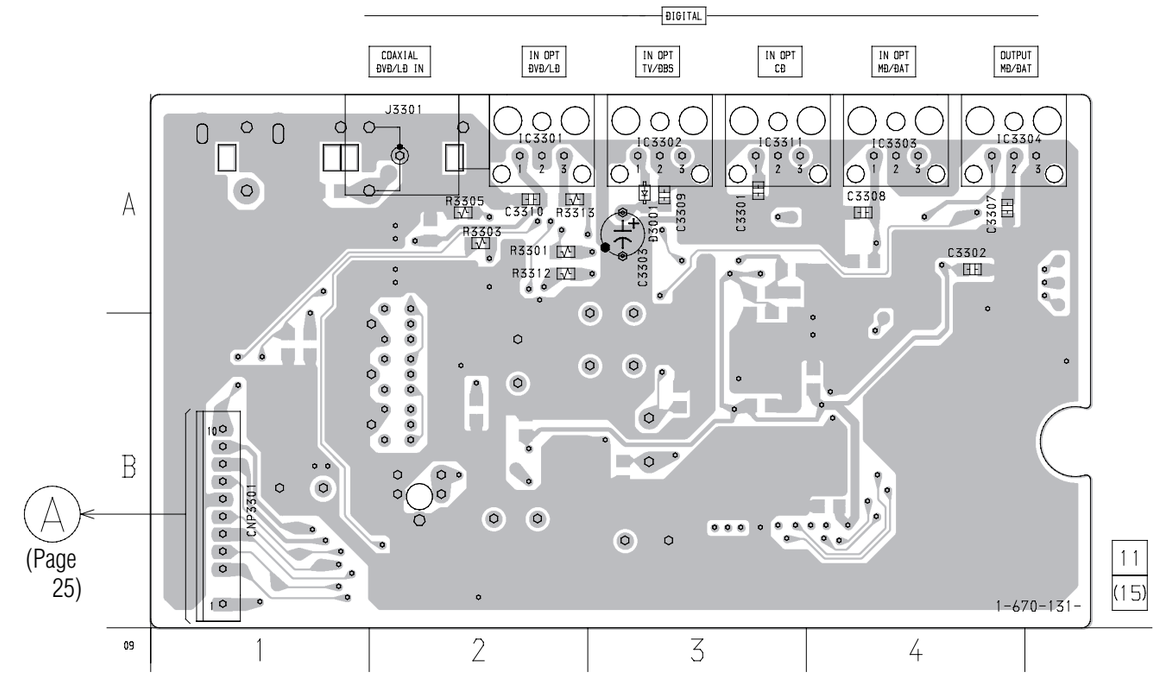
5-21. SCHEMATIC DIAGRAM – INPUT SECTION –



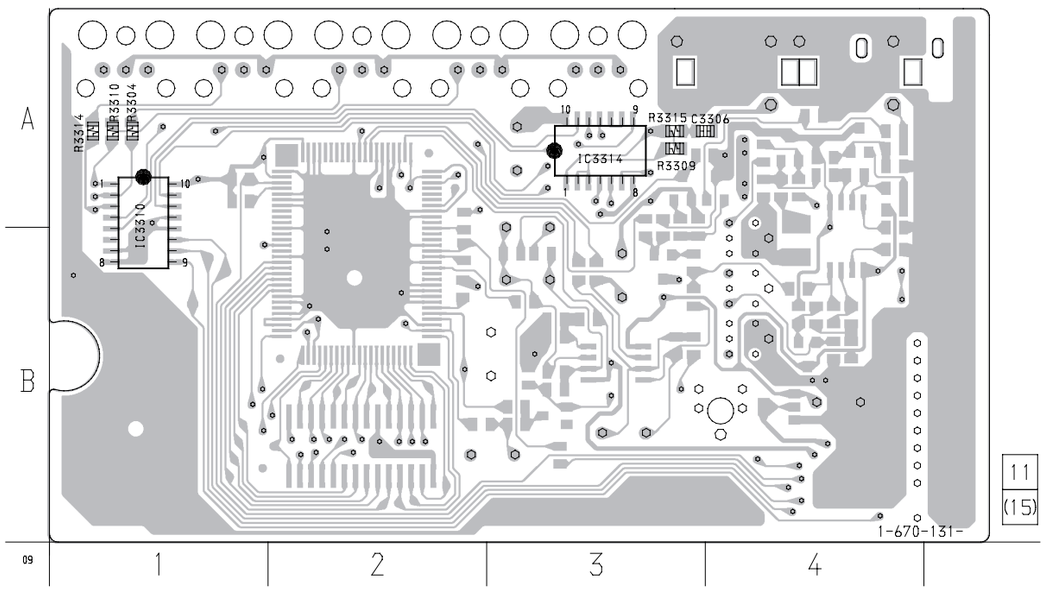
5-22. PRINTED WIRING BOARD – INPUT SECTION –

• See page 17 for Circuit Boards Location.

【ÐIGITAL INPIT BOARÐ】(SIÐE A)

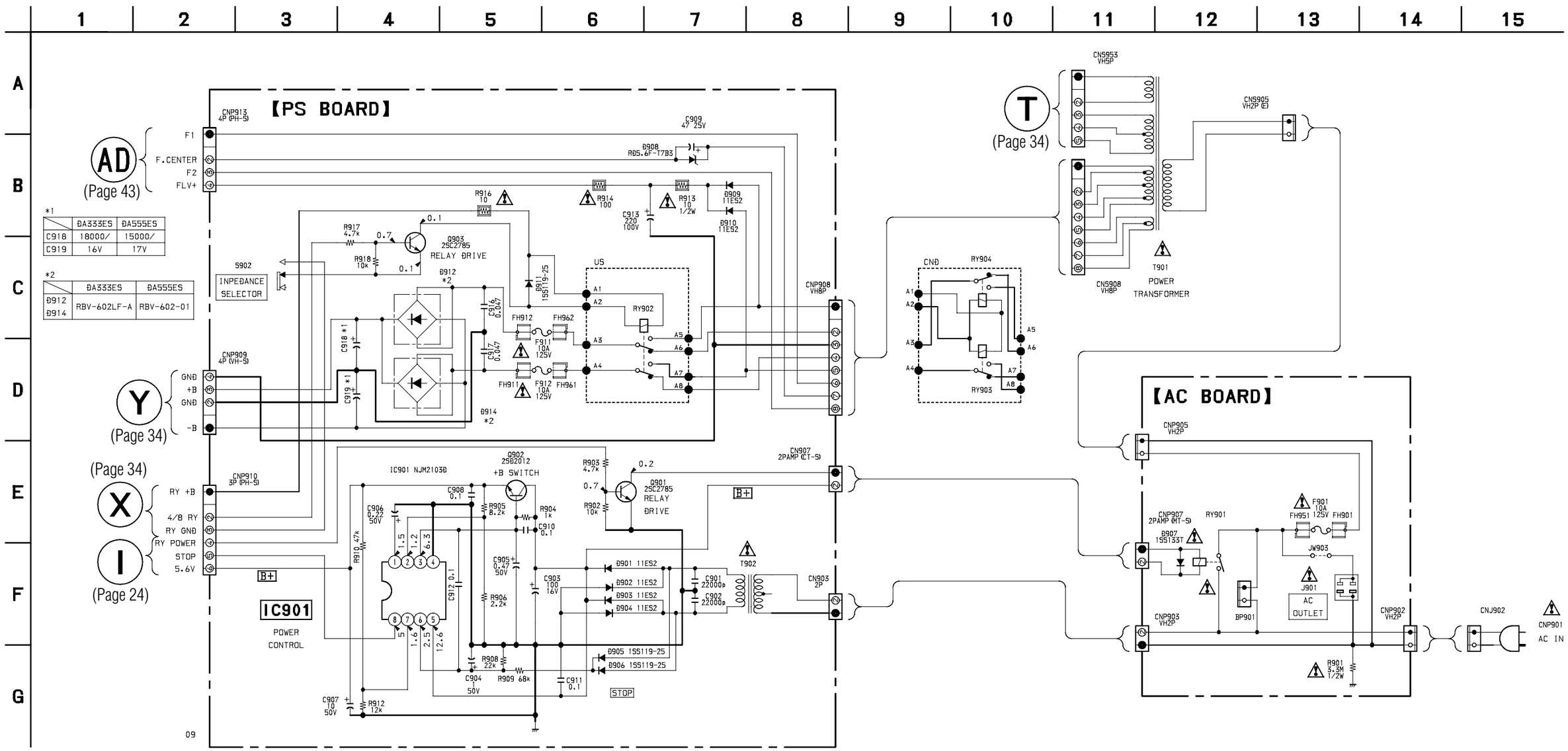


【ÐIGITAL INPUT BOARÐ】(SIÐE B)



5-23. SCHEMATIC DIAGRAM – POWER SECTION –

• See page 61 for IC Block Diagrams.



*1

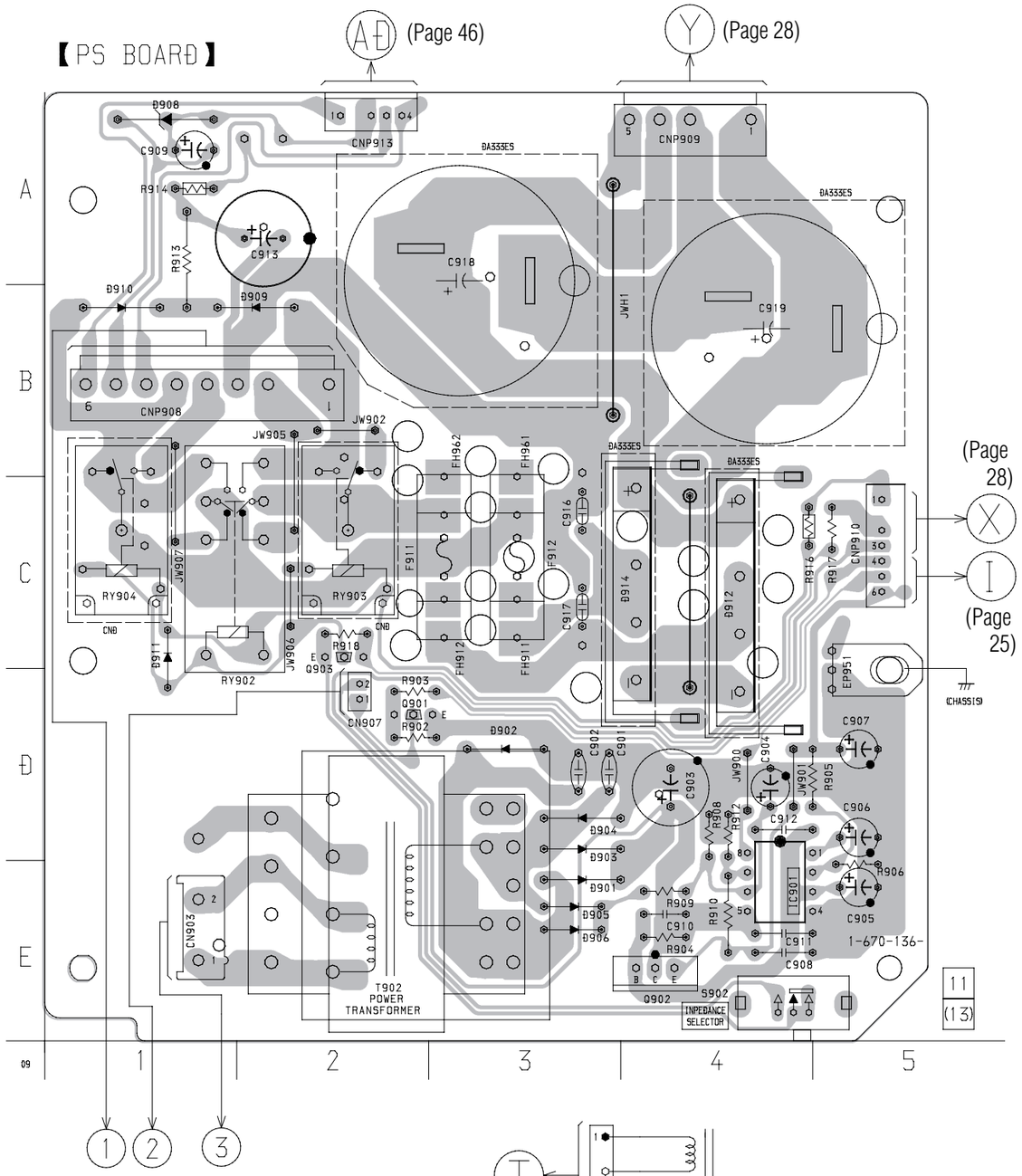
	DA333ES	DA555ES
C918	18000/	15000/
C919	16V	17V

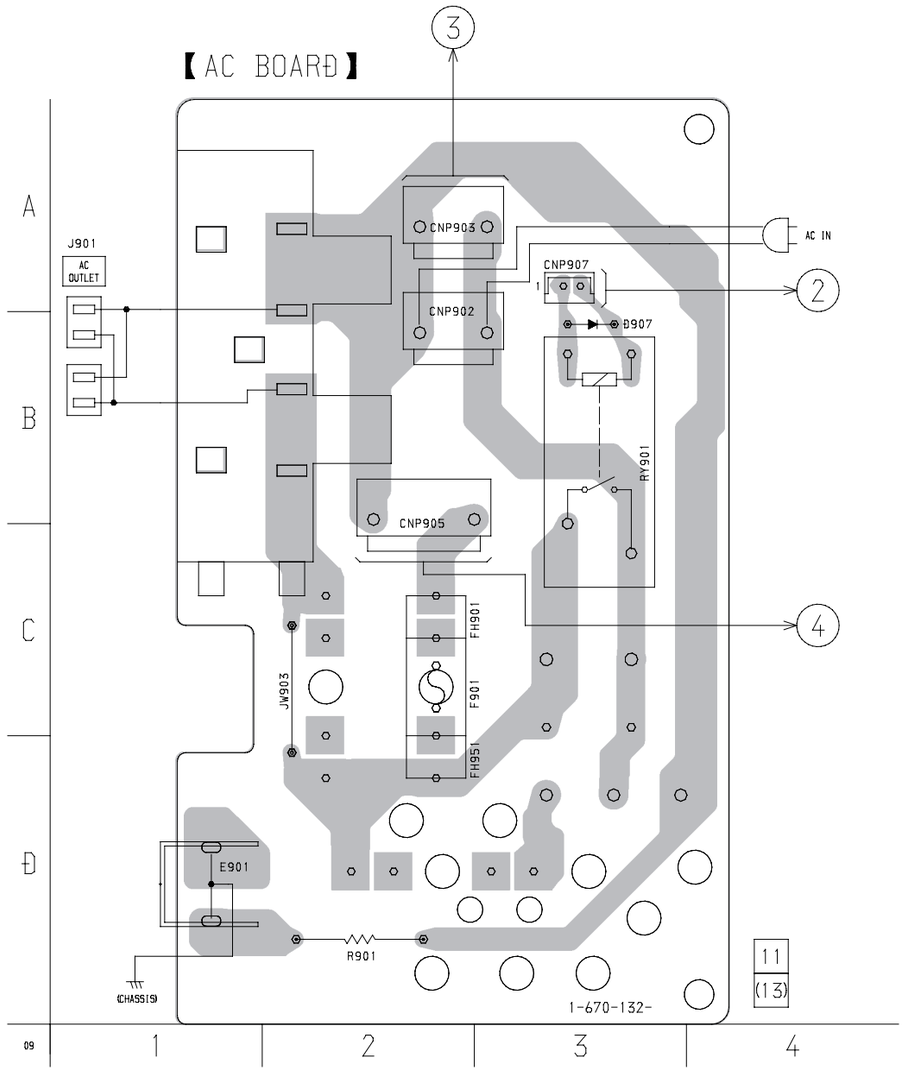
*2

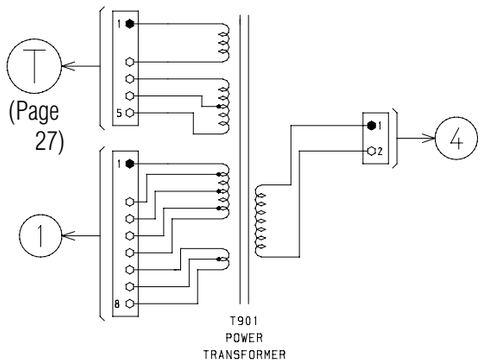
	DA333ES	DA555ES
D912 D914	RBV-602LF-A	RBV-602-01

5-24. PRINTED WIRING BOARD – POWER SECTION –

• See page 17 for Circuit Boards Location.





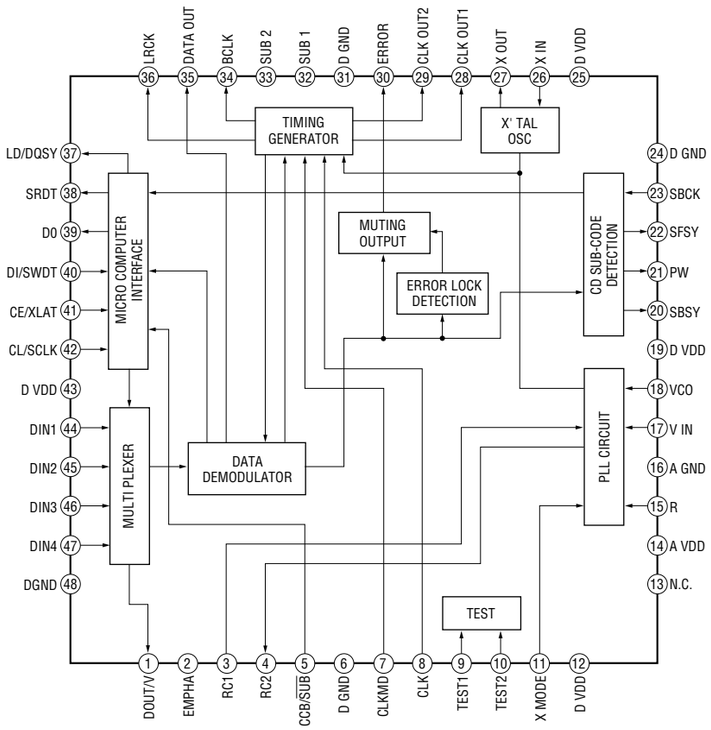


• **Semiconductor Location**

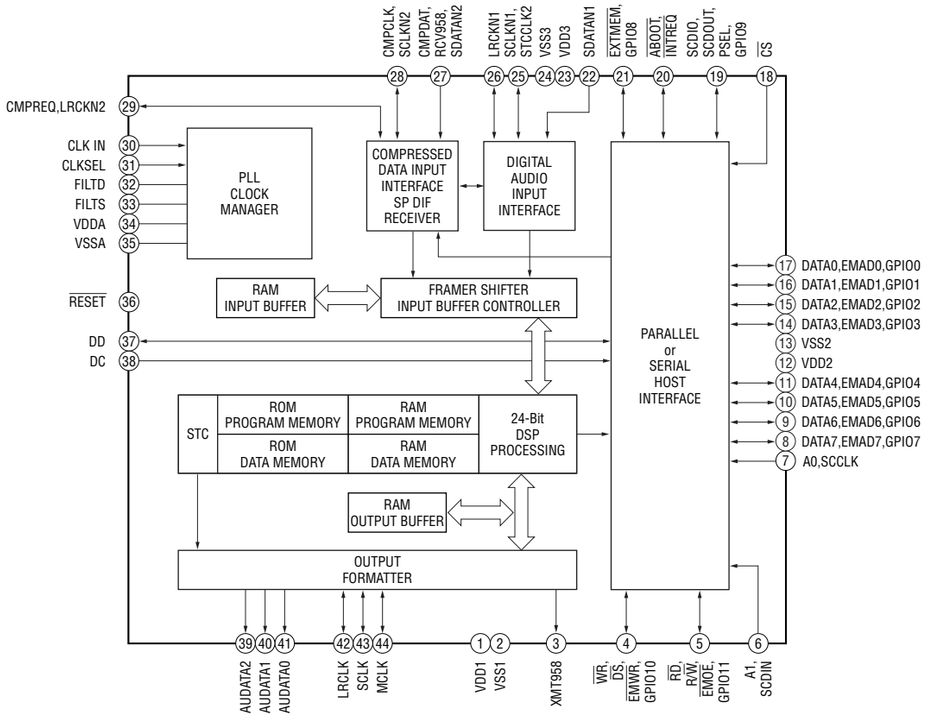
Ref. No.	Location	Ref. No.	Location
D901	E-3	D911	C-1
D902	D-3	D912	C-4
D903	D-3	D914	C-3
D904	D-3		
D905	E-3	IC901	E-4
D906	E-3		
D908	A-1	Q901	D-2
D909	B-2	Q902	E-4
D910	B-1	Q903	C-2

5-25. IC BLOCK DIAGRAMS

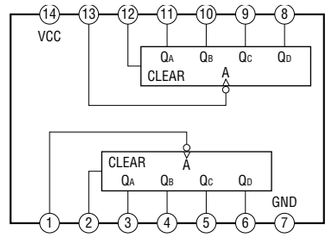
IC1101 CXD8495AQ (DIGITAL BOARD)



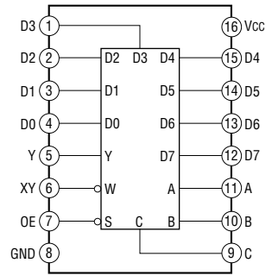
IC1106 CS4926 (DIGITAL BOARD)



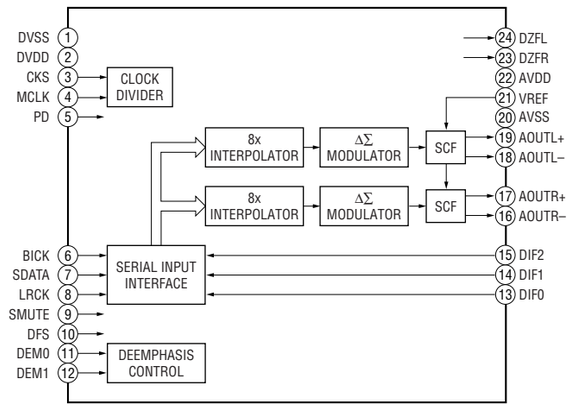
IC1109 TC74VHC393FT(EL) (DIGITAL BOARD)



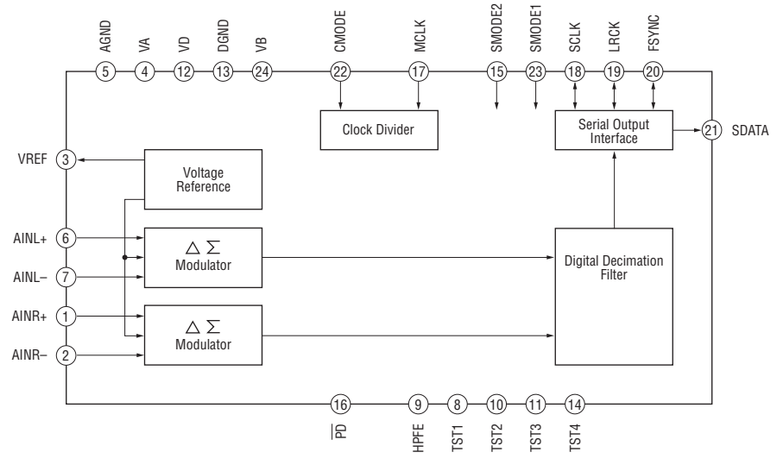
IC3310 TC74HC151AF (DIGITAL BOARD)



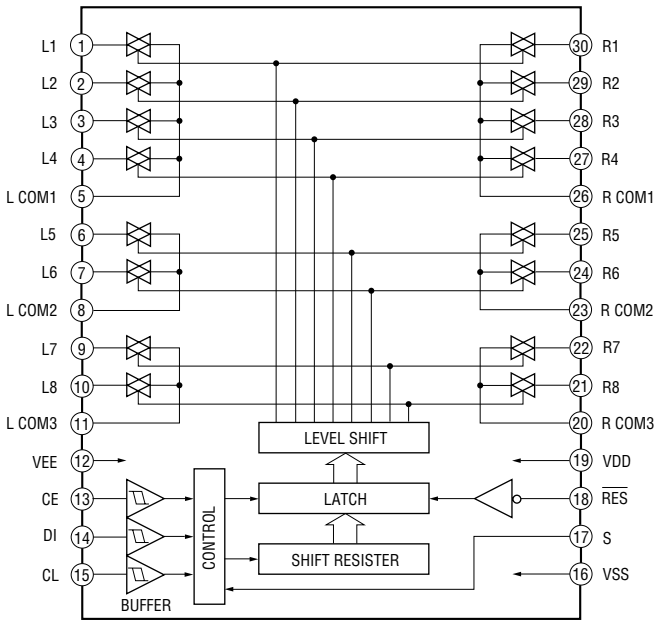
IC1202 AK4324-VF-E2 (DIGITAL BOARD)



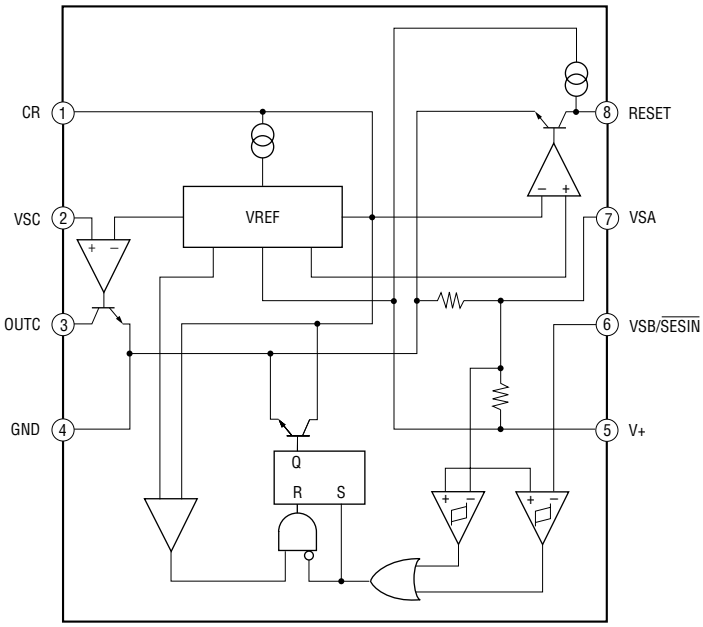
IC1210 AK5352-VF-E2 (DIGITAL BOARD)



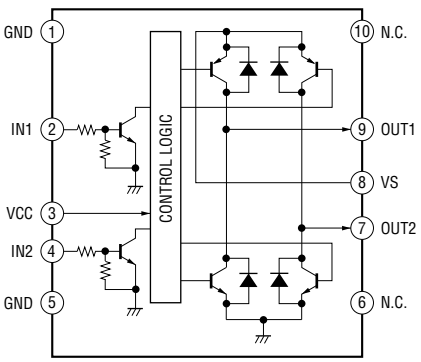
IC202,203 LC7821 (MAIN/AUDIO BOARD)



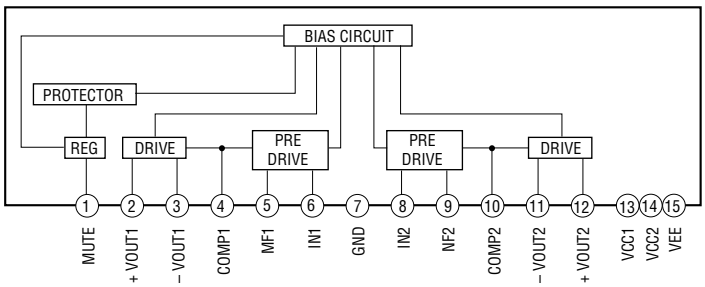
IC901 NJM2103D (PS BOARD)



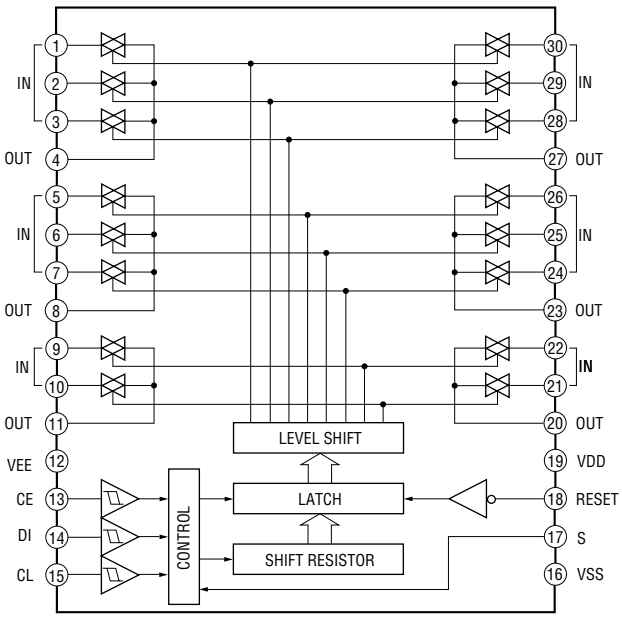
IC103 LB1638MTE (DISPLAY BOARD)



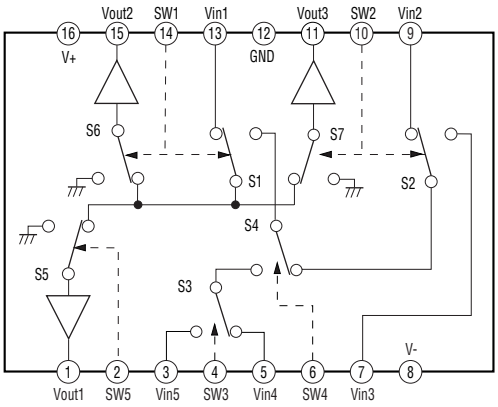
IC501,601,701 uPC2581V (REAR AMP/MAIN BOARD)



IC351 LC7822 (MAIN BOARD)



IC811,812,813 NJM2296D (S.VIDEO/VIDEO BOARD)



5-26. IC PIN FUNCTION DESCRIPTION

IC102 MB90553APF-G-139-BND (DISPLAY BOARD)

Pin No.	Pin Name	I/O	Description
1	LED V VIDEO2	O	VIDEO 2 visual display data output to LED
2	LED A VIDEO3	O	VIDEO 3 audio display data output to LED
3	LED V VIDEO3	O	VIDEO 3 visual display data output to LED
4	LED A DVD/LD	O	DVD/LD audio display data output to LED
5	LED V DVD/LD	O	DVD/LD visual display data output to LED
6	LED A TV/DBS	O	TV/DBS audio display data output to LED
7	LED V TV/DBS	O	TV/DBS visual display data output to LED
8	LED TAPE	O	TAPE display data output to LED
9	LED MD/DAT	O	MD/DAT display data output to LED
10	LED CD	O	CD display data output to LED
11	VSS	—	Ground (Connected to ground)
12	LED TUNER	O	TUNER display data output to LED
13	LED PHONO	O	PHONO display data output to LED
14	LED SURR	O	CURSOR MODE SURROUND display data output to LED
15	LED EQ	O	CURSOR MODE EQ display data output to LED
16	LED INDEX	O	CURSOR MODE INDEX display data output to LED
17	LED S.F ON/OFF	O	SOUND FIELD ON/OFF display data output to LED
18	LED MUTING	O	MUTING display data output to LED
19	FLASH DO	O	FLASH DATA output
20	FLASH D1	I	FLASH DATA input
21	FL CLK	O	Clock output to fluorescent display tube
22	FL DATA	O	Data output to fluorescent display tube
23	VCC	—	Power supply +5 V
24	FL LAT	O	Fluorescent latch
25	FL CLEAR	O	Fluorescent clear
26	SIRCS IN	I	SIRCS input
27	C	—	External power regulator capacitor 0.1 is connected to this terminal
28	—	—	Not used (Connected to ground)
29	—	—	Not used (Connected to ground)
30	—	—	Not used (Connected to ground)
31	—	—	Not used (Connected to ground)
32	—	—	Not used (Connected to ground)
33	—	—	Not used (Connected to ground)
34	AVCC	—	Analog power supply +5 V
35	AVRH	—	AVRH (Connected to Analog power supply +5 V)
36	AVRL	—	AVRL (Connected to ground)
37	AVSS	—	Ground (Connected to ground)
38	AD KEY IN 1	I	Key input 1
39	AD KEY IN 2	I	Key input 2
40	AD KEY IN 3	I	Key input 3
41	AD KEY IN 4	I	Key input 4
42	VSS	—	Ground (Connected to ground)
43	AD KEY IN 5	I	Key input 5
44	AD KEY IN 6	I	Key input 6
45	AD VERSION 1	I	Version input 1
46	AD VERSION 2	I	Version input 2
47	STOP	I	Stop input
48	—	—	Not used (Connected to ground)
49	MD0	I	MD 0
50	MD1	I	MD 1

Pin No.	Pin Name	I/O	Description
51	MD2	I	MD 2
52	HSTX	I	Hardware STANDBY input
53	RDS CLOCK	I	RDS clock input
54	RDS DATA	I	RDS data input
55	VOL UP	O	Volume up output
56	VOL DOWN	O	Volume down output
57	IRQ6	I	SP switch S102
58	U-RESET	O	Reset output
59	U-SREQ	I	Slave request and data input
60	U-MREQ	O	Master request output
61	U-DATA	O	Master data output
62	U-CLOCK	O	Master clock output
63	AUBUS-IN	I	Audio bus input
64	—	—	Not used (Connected to ground)
65	—	—	Not used (Connected to ground)
66	—	—	Not used (Connected to ground)
67	AUBUS-OUT	O	Audio bus output
68	—	—	Not used (Connected to ground)
69	FUNCTION-UP	I	Function encoder up input
70	FUNCTION-DOWN	I	Function encoder down input
71	—	—	Not used (Connected to ground)
72	SP-A	I	Speaker A select switch input
73	SP-B	I	Speaker B select switch input
74	POW-KEY IN	I	Power key input
75	—	—	Not used (Connected to ground)
76	—	—	Not used (Connected to ground)
77	RESET	I	Reset input
78	—	—	Not used (Connected to ground)
79	—	—	Not used (Connected to ground)
80	—	—	Not used (Connected to ground)
81	VSS	—	Not used (Connected to ground)
82	X0	—	External crystal is connected to this terminal
83	X1	—	External crystal is connected to this terminal
84	VCC	—	Power supply +5 V
85	—	—	Not used (Connected to ground)
86	—	—	Not used (Connected to ground)
87	LED DOLBY DIGITAL	O	MULTI FORMAT DECODE display data output to LED
88	LED VOL	O	VOLUME display data output to LED
89	LED BASS BOOST	O	BASS BOOST display data output to LED
90	LED A VIDEO1	O	VIDEO 1 audio display data output to LED
91	LED V VIDEO1	O	VIDEO 1 visual display data output to LED
92	LED A VIDEO2	O	VIDEO 2 audio display data output to LED
93	MBUS-V1	I	V1 input form MBUS (Connected to ground)
94	MBUS-V2	I	V2 input form MBUS (Connected to ground)
95	MBUS-TV	I	TV input form MBUS (Connected to ground)
96	MBUS-STATUS	I	STATUS input form MBUS (Connected to ground)
97	—	—	Not used (Connected to ground)
98	—	O	CTRL latch
99	—	—	Not used (Connected to ground)
100	—	—	Not used (Connected to ground)

IC 1201 MB90574PFV-G-176-BND (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	RFERR	I	RF demodulator error or signal input
2	RERESET	O	RF demodulator/DIR reset
3	SW6	O	Woofer gain control 6
4	SW12	O	Woofer gain control 12
5	REAR3	O	Rear gain control 3
6	REAR6	O	Rear gain control 6
7	REAR12	O	Rear gain control 12
8	VCC	—	Power supply +5 V
9	S1NI	I	UART input. Used for rewriting flash memory
10	SOT0	O	UART output. Used for rewriting flash memory
11	—	—	Not used (Connected to ground)
12	SIN1	O	Test pin
13	SOT1	I	Surround mute in
14	ANA/DIG	O	Analog/digital selection (SN74HC157)
15	SCDIN	I	To CS4923 data input
16	SCCLK	O	To CS4923 clock
17	CS	O	To CS4923 chip select
18	SCDIO/OUT	O	To CS4923 SPI data output
19	INTREQ	I	To CS4923 interrupt request
20	RESET	O	To CS4923 reset
21	XHDWR	O	To CXD2712 HCIF data write
22	XHDRD	O	To CXD2712 HCIF data read
23	HRDY	I	To CXD2712 HCIF ready
24	XHDCS	O	To CXD2712 HCIF chip select
25	HD0	I/O	To CXD2712 HCIF data input/output
26	HD1	I/O	To CXD2712 HCIF data input/output
27	HD2	I/O	To CXD2712 HCIF data input/output
28	HD3	I/O	To CXD2712 HCIF data input/output
29	HD4	I/O	To CXD2712 HCIF data input/output
30	HD5	I/O	To CXD2712 HCIF data input/output
31	HD6	I/O	To CXD2712 HCIF data input/output
32	HD7	O	To CXD2712 HD 7
33	VSS	—	Ground
34	C	—	External power regulator capacitor 0.1 u is connected to this terminal
35	HA0	O	To CXD2712 HCIF address
36	XRST	O	To CXD2712 reset
37	SOD	I	To CXD2712 LFE detection
38	DVCC	—	Digital power supply +5 V
39	DVSS	—	Digital ground
40	D/AINT	O	DA AK4324 reset
41	SMUTE	O	DA AK4324 muting
42	AVCC	—	Analog power supply +5 V
43	AVR+	—	Power supply +5 V
44	AVR-	—	Ground
45	AVSS	—	Ground
46	A/DINT	O	AD AK5352 reset
47	—	—	Not used (Not connected, open)
48	EVSTB	O	To TC9299 strobe
49	EVDATA	O	To TC9299 data
50	EVCLK	O	To TC9299 clock

Pin No.	Pin Name	I/O	Description
51	DISPMR	I	Display master request (Connected to MB90570 U.MREQ)
52	DISPDATA	I	Display data (Connected to MB90570 U.DATA)
53	SLVDATA/REQ	O	Slave data/request (Connected to MB90570 U.SREQ)
54	VCC	—	Power supply +5 V
55	DISPCLK	I	Display clock (Connected to MB90570 U.CLOCK)
56	S.LAT	O	To tuner LC7821 latch
57	S.DATA	O	To tuner LC7821 data
58	S.CLK	O	To tuner LC7821 clock
59	—	—	Not used (Connected to ground)
60	DATAIN	I	PLL data input
61	AUTOSTOP	I	Auto stop input
62	STEREO	I	Stereo input
63	VSS	—	Ground
64	STOP	I	AC power check
65	—	—	Not used (Connected to ground)
66	—	—	Not used (Connected to ground)
67	ERROR	O	Error output LC8904
68	—	—	Not used (Connected to ground)
69	—	—	Not used (Connected to ground)
70	—	—	Not used
71	VERSION1	I	U or CED or J
72	VERSION2	I	U or CED or J
73	X1A	—	Not used (Not connected, open)
74	X0A	—	Not used (Not connected, open)
75	SRDT	I	To LC8904AQ C-bit
76	SWDT	O	To LC8904AQ data
77	XLAT	O	To LC8904AQ latch
78	SCLK	O	To LC8904AQ clock
79	PROTEC	I	Protector input
80	VIDEO(SW4)	O	To NJM2296 video select switch 4
81	VIDEO(SW3)	O	To NJM2296 video select switch 3
82	VIDEO(SW2)	O	To NJM2296 video select switch 2
83	VIDEO(SW1)	O	To NJM2296 video select switch 1
84	ACMUTE	—	IC muting (Not connected, open)
85	F.MUTE	O	Function muting
86	HSTX	—	Hardware standby (Connected to power supply +5 V)
87	MD2	O	MD 2
88	MD1	—	MD 1 (Connected to power supply +5 V)
89	MD0	O	MD 0
90	RESET	I	Reset
91	VSS	—	Ground (Connected to ground)
92	X0	—	External ceramic filter 4 MHz is connected to this terminal
93	X1	—	External ceramic filter 4 MHz is connected to this terminal
94	VCC	—	Power supply +5 V
95	PO0	—	Flash memory rewrite (Connected to ground)
96	PO1	—	Flash memory rewrite (Connected to ground)
97	TUNERMUTE	O	Tuner muting
98	SURRMUTE	O	Surround muting
99	RY-4/8	O	4/8 relay
100	—	—	Not used

Pin No.	Pin Name	I/O	Description
101	RY-FRONT/A	O	Front speaker A relay
102	RY-FRONT/B	O	Front speaker B relay
103	RY-CENTER	O	Center speaker relay
104	RY-REAR	O	Rear speaker relay
105	WOOFER-RY	O	Sub woofer relay
106	RY-HP	O	Headphones relay
107	RY-POWER	O	Power relay
108	RY-DIRECT-PASS	O	Direct/pass relay
109	DIG-IN2	I	Digital input select 2 (SN74HC151)
110	DIG-IN1	I	Digital input select 1 (SN74HC151)
111	DIG-IN0	I	Digital input select 0 (SN74HC151)
112	TEST0	—	Test port 0 (Not connected, open)
113	FRONT4	O	Front gain control 4
114	FROUT8	O	Front gain control 8
115	FRONT16	O	Front gain control 16
116	C3	O	Center gain control 3
117	C6	O	Center gain control 6
118	C12	O	Center gain control 12
119	VSS	—	Ground
120	SW3	O	Woofer gain control 3

IC1101 CXD8495AQ (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	DOUT/V	O	EIAJ data and parity flag output terminal
2	EMPHA	O	Emphasis monitor output terminal ("H" = ON)
3	RC1	I	RC oscillator input terminal
4	RC2	O	RC oscillator output terminal
5	CCB/$\overline{\text{SUB}}$	I	Microprocessor I/F select input terminal (CCB: H, $\overline{\text{SUB}}$: L) (Connected to ground)
6	D. GND	—	Digital ground
7	128/$\overline{256}$	O	Clock output select terminal ("L" = 256 fs, "H" = 128 fs) (Connected to ground)
8	$\overline{384}$/512	I	Clock input select terminal ("H" = 512 fs, "L" = 384 fs)
9	TEST	I	Test terminal (Connected to ground)
10	TEST	I	Test terminal (Connected to ground)
11	RESET	I	Reset input terminal
12	D. +5V	—	Digital power supply 0.5 V
13	—	—	Not used (Not connected, open)
14	A. +5V	—	Analog power supply +5 V
15	R	I	VCO oscillation band adjustment input terminal
16	A. GND	—	Analog ground
17	VCO IN	I	VCO free-running frequency setting input terminal
18	VCO	O	External LPF is connected to this terminal for PLL
19	D. +5V	—	Digital power supply +5 V
20	SBSY	O	CD subcode I/F and block sync output terminal
21	PW	O	CD subcode I/F and data output terminal
22	SFSY	O	CD subcode I/F and frame sync output terminal
23	SB CLK	I	CD subcode I/F and shift clock input terminal for data reading
24	D. GND	—	Digital ground
25	D. +5V	—	Digital power supply +5 V
26	XIN	I	Crystal oscillator input terminal
27	XOUT	O	Crystal oscillator output terminal
28	CLK OUT	O	VCO and crystal oscillator clock output terminal
29	CLK OUT	O	256fs or 128fs clock output terminal (Selected by CLKMD terminal)
30	ERROR	O	Error mute output terminal
31	D. GND	—	Digital ground
32	SUB1	O	Sampling frequency monitor output terminal
33	SUB2	O	Sampling frequency monitor output terminal
34	BCK	O	Bit clock output terminal
35	DATA OUT	O	Audio data output terminal
36	LRCK	O	L, R clock output terminal (L-ch: H, R-ch: L)
37	LD/DQSY	O	Microprocessor I/F and subcode Q data sync output terminal
38	SRDT	O	Microprocessor I/F. When CCB/SUB is L, data output terminal (3-state output)
39	DO	O	Microprocessor I/F. When CCB/SUB is H, data output terminal (high level open drain output) (Not connected)
40	DI/SWDT	I	Microprocessor I/F. Data input terminal
41	CE/XLAT	I	Microprocessor I/F. Chip enable/latch input terminal
42	CL/SCLK	I	Microprocessor I/F. Clock input terminal
43	D. +5V	—	Digital power supply +5 V
44	DIN1	I	Built-in amplifier data input terminal (Connected to ground)
45	DIN2	I	Built-in amplifier data input terminal (Connected to ground)
46	DIN3	I	Built-in amplifier data input terminal (Connected to ground)
47	DIN4	I	Built-in amplifier data input terminal
48	D. GND	—	Digital ground

IC1112 CXD2712R (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	VSS3	—	Ground
2 - 5	SOA - SOD	O	Serial data output
6,7	ECJ0, ECJ1	I	Conditional jump input terminal (7 pin: Connected to ground)
8	—	—	Not used (Connected to ground)
9	XHDWR	I	HCIF data write
10	XHDRD	I	HCIF data read
11	VSS4	—	Ground
12	VDD2	—	Power supply +3.3 V
13	HRDY	O	HCIF ready signal. Open drain
14	XHDCS	I	HCIF chip select
15	HA0	I	HCIF address input
16 -20	HD0 - HD4	I/O	HCIF data input/output
21	VSS5	—	Ground
22	VDD3	—	Power supply +3.3 V
23 - 25	HD5 - HD7	I/O	HCIF data input/output
26	$\overline{\text{XRST}}$	I	Reset input "L": active
27 -30	—	—	Test data output. Not used. (Not connected)
31	VSS6	—	Ground
32 - 40	SD0 - SD8	I/O	External RAM data input/output
41	VSS7	—	Ground
42	VDD4	—	Power supply +3.3 V
43 -49	ED9 - ED15	I/O	External RAM data input/output
50	—	—	Test data input. Not used. (Connected to ground)
51	VSS8	—	Ground
52	VDD5	—	Power supply +3.3 V
53 -60	ED16 - ED23	I/O	External RAM data input/output
61	VSS9	—	Ground
62 -69	ED24 - ED31	I/O	External RAM data input/output
70	XOE	O	External RAM output cable
71	VSS10	—	Ground
72	VDD6	—	Power supply +3.3 V
73	CAS	O	External RAM column address strobe Not used. (Not connected)
74	XWE	O	External RAM write enable
75	RAS	O	External RAM raw address strobe. Not used. (Not connected)
76 -80	EA0 - EA4	I/O	External RAM address output/test data input
81	VSS11	—	Ground
82	VDD7	—	Power supply +3.3 V
83 -89	EA5 - EA11	I/O	External RAM data input/output
90	EA12	O	External RAM address output
91	VSS0	—	Ground
92 -94	EA13 - EA15	O	External RAM address output
95	EA16	O	Not used
96	TSTA	I	Test data input "L" = normal "H" = test (Connected to ground)
97	PLDIVF	I	PLL input frequency select "L" = 256fs "H" = 128 fs (Connected to ground)
98	PLDIVB	O	PLL output frequency select "L" = 768 fs "H" = 1024 fs (Connected to ground)
99	CLK1	I	Master clock input
100	CLKO	O	Master clock output (Not connected)

Pin No.	Pin Name	I/O	Description
101	VSS1	—	Ground
102	VDD0	—	Power supply +3.3 V
103	AVSS	—	Ground for PLL cell
104	AVDD	—	VDD for PLL cell
105	PLLCK	I/O	PLL output/test clock input (Not connected)
106	XPLLEN	I	PLL cell oscillation enable "L" oscillation enable "H" oscillation stop (Connected to ground)
107	TST	I	Test data input "L" = normal "H" = test (Connected to ground)
108	LRCT	I	Frequency counter input (Connected to ground)
109	LROUT	O	LRCK0 divider output
110	BKOUT	O	BCK0 divider output
111	VSS2	—	Ground
112	VDD1	—	Power supply +3.3 V
113	BCK0	I	BCK input
114	BCK1	I	BCK input
115	LRCK0	I	LRCK input
116	LRCK1	I	LRCK input
117 -120	SIA - SID	I	Serial data input

SECTION 6
EXPLODED VIEWS

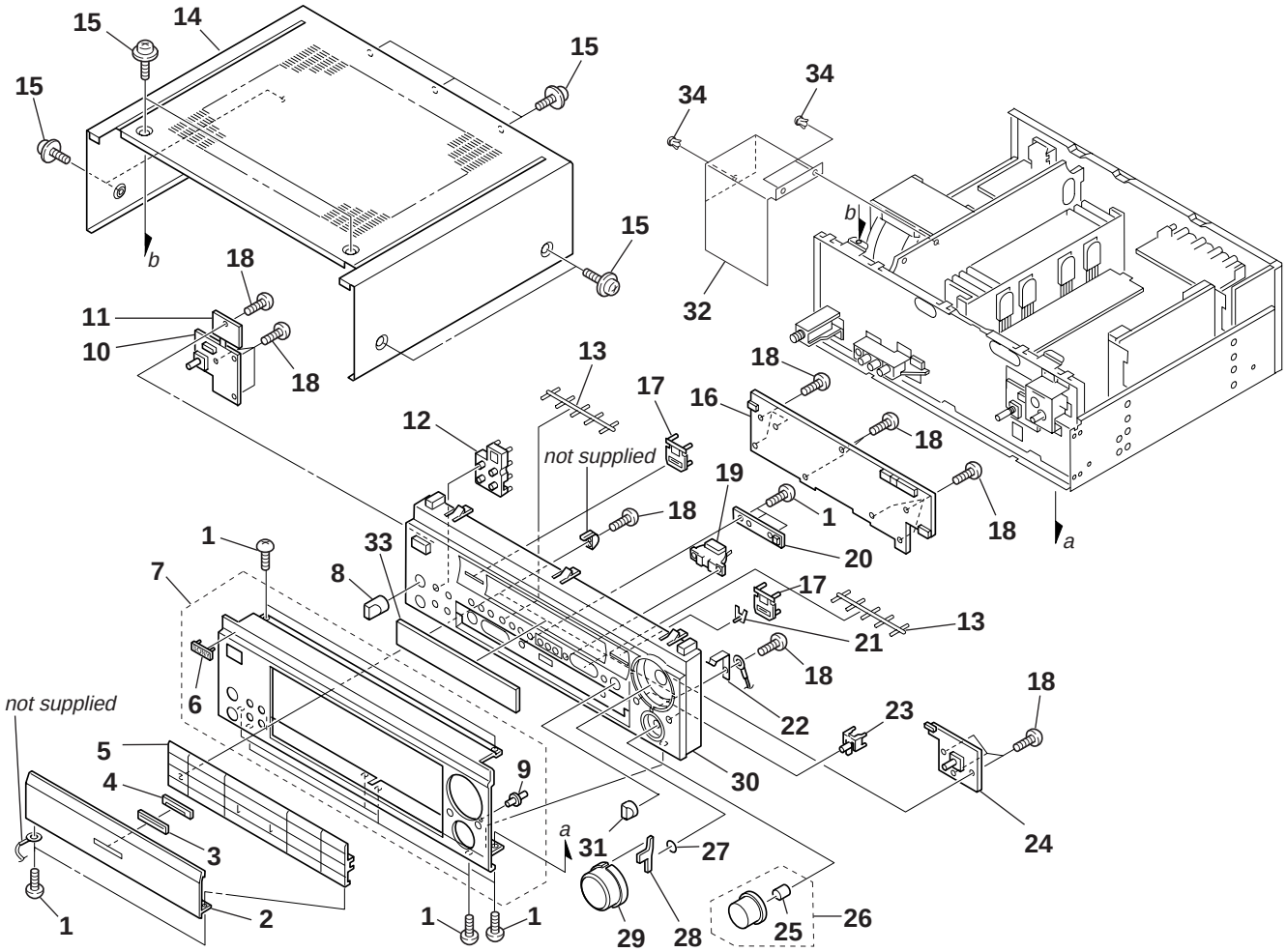
NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . . (RED)
  ↑ ↑
  Parts color Cabinets color
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND : Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

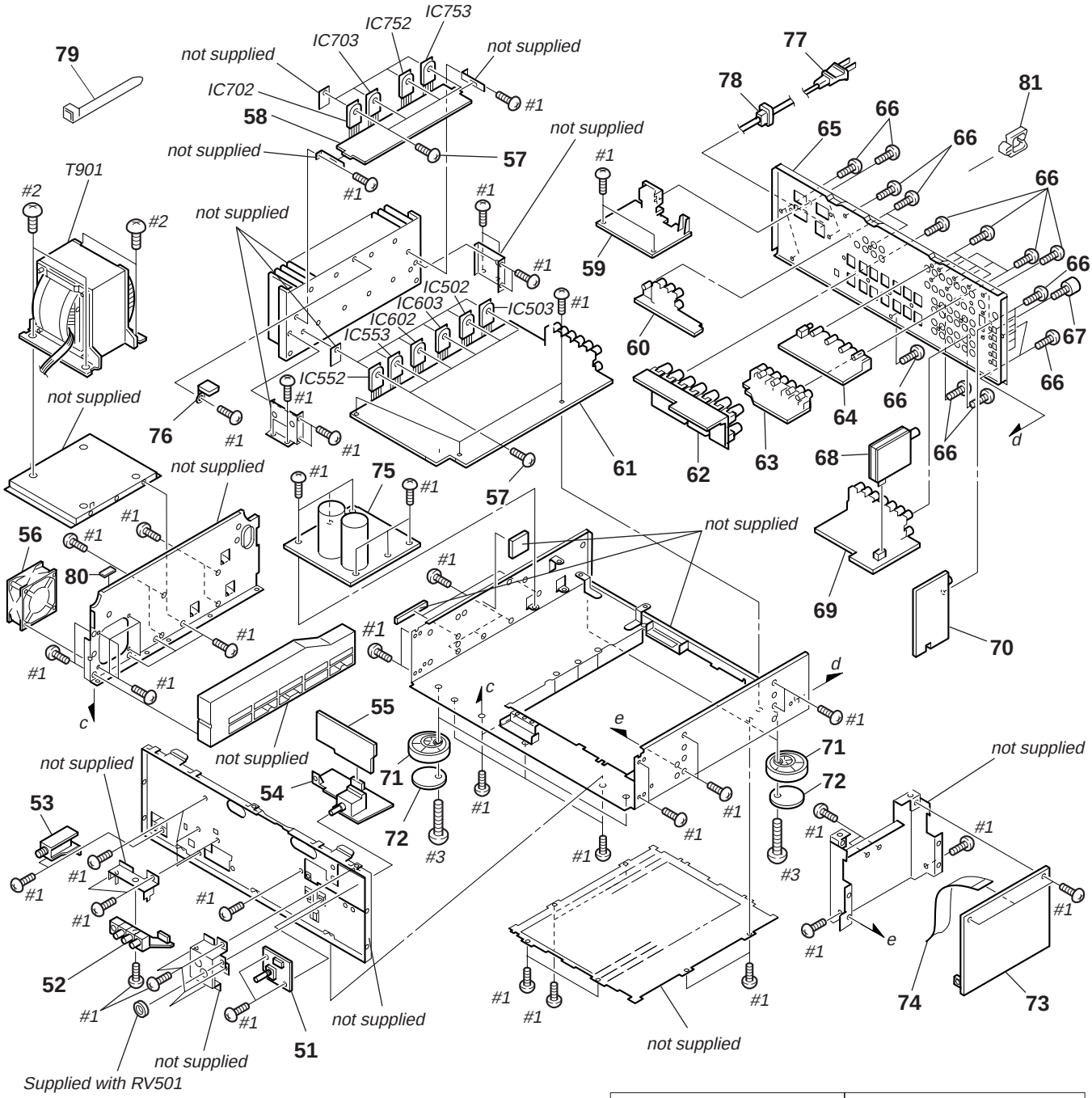
6-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	3-704-515-21	SCREW (BV/RING)	
2	4-900-632-01	LID (FRONT)	
* 3	4-900-642-01	ESCUTCHEON (LID)	
* 4	4-900-643-01	INDICATOR (LID)	
* 5	4-900-634-01	LID (BASE)	
6	4-942-568-41	EMBLEM (NO.5), SONY	
7	A-4411-619-A	PANEL ASSY, FRONT (DA555ES)	
7	A-4411-621-A	PANEL ASSY, FRONT (DA333ES)	
8	4-957-383-01	KNOB (F14)	
* 9	X-4950-462-1	LENS ASSY, LED	
* 10	1-670-142-11	SP SWITCH BOARD	
* 11	1-670-749-11	POWER SWITCH BOARD	
12	4-900-563-11	BUTTON (5)	
13	4-991-388-01	INDICATOR (FUNC)	
* 14	X-4950-431-1	CASE ASSY	
15	4-210-291-01	SCREW (CASE 3 TP2)	
* 16	A-4419-733-A	DISPLAY BOARD, COMPLETE (DA555ES)	
* 16	A-4419-735-A	DISPLAY BOARD, COMPLETE (DA333ES)	
17	4-991-386-01	BUTTON (WINDOW)	

Ref. No.	Part No.	Description	Remark
18	4-951-620-01	SCREW (2.6X8), +BVTP	
* 19	4-900-638-01	HOUSE, LAMP	
* 20	1-670-147-11	LED BOARD	
21	4-900-645-01	INDICATOR (S/F)	
22	4-900-639-01	SPRING	
23	4-900-491-01	BUTTON (MUTE)	
* 24	1-670-146-11	ENCODER BOARD	
25	3-703-466-00	SPRING (6600)	
26	X-4948-601-1	KNOB (FUNC) ASSY	
27	3-350-426-01	SPRING, RING	
28	4-998-207-11	INDICATOR (VOL)	
29	X-3375-592-1	KNOB (VOL) ASSY	
30	X-4951-411-1	BASE ASSY, PANEL	
31	4-900-500-01	KNOB (BAL)	
* 32	4-212-984-01	COVER (FR)(DA555ES)	
33	4-900-648-11	WINDOW	
34	3-531-576-01	RIVET (DA555ES)	

6-2. CHASSIS SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
* 51	1-670-140-11	BAL.VOL BOARD	
* 52	1-670-145-11	FRONT VIDEO BOARD	
* 53	1-670-139-11	HP BOARD	
* 54	1-670-141-11	MAIN VOL BOARD	
* 55	A-4414-252-A	PRE AMP BOARD, COMPLETE	
56	1-698-792-11	FAN, DC (DA555ES)	
57	3-905-609-11	SCREW (TRANSISTOR)	
* 58	A-4414-280-A	REAR AMP BOARD, COMPLETE (DA555ES)	
* 58	A-4414-301-A	REAR AMP BOARD, COMPLETE (DA333ES)	
* 59	1-670-132-11	AC BOARD	
* 60	1-670-134-11	5.1 INPUT BOARD	
61	A-4419-732-A	MAIN BOARD, COMPLETE (DA555ES)	
61	A-4419-736-A	MAIN BOARD, COMPLETE (DA333ES)	
* 62	1-670-150-11	SP TM BOARD	
* 63	1-670-138-11	VIDEO BOARD	
* 64	A-4414-297-A	S.VIDEO BOARD, COMPLETE	
65	4-219-066-01	PANEL, BACK (DA555ES:US)	
65	4-219-066-11	PANEL, BACK (DA555ES:CND)	
65	4-219-066-21	PANEL, BACK (DA333ES:US)	
65	4-219-066-31	PANEL, BACK (DA333ES:CND)	
66	3-704-515-21	SCREW (BV/RING)	
67	4-947-010-01	SCREW, FEEDER FIXED	
68	1-693-407-11	TUNER	
* 69	A-4414-263-A	AUDIO BOARD, COMPLETE	
* 70	A-4414-295-A	DIGITAL INPUT BOARD, COMPLETE	
71	4-970-123-01	FOOT (F50180S)	
72	4-970-124-01	CUSHION (F50180S)	

Ref. No.	Part No.	Description	Remark
* 73	A-4414-292-A	DIGITAL BOARD, COMPLETE	
74	1-773-115-11	WIRE (FLAT TYPE)(19 CORE)	
* 75	A-4414-259-A	PS BOARD, COMPLETE (DA555ES:US)	
* 75	A-4414-260-A	PS BOARD, COMPLETE (DA555ES:CND)	
* 75	A-4414-627-A	PS BOARD, COMPLETE (DA333ES:US)	
* 75	A-4414-628-A	PS BOARD, COMPLETE (DA333ES:CND)	
* 76	1-670-151-11	TH BOARD (DA555ES)	
⚠77	1-559-479-11	CORD, POWER	
78	4-916-783-01	BUSHING, CORD	
* 79	3-655-653-21	BAND (TAITON), BINDING	
80	3-831-441-99	CUSHION, STOPPER	
81	4-309-753-21	HOLDER, WIRE	
IC502	8-749-014-72	IC SAP15N	
IC503	8-749-014-73	IC SAP15P	
IC552	8-749-014-72	IC SAP15N	
IC553	8-749-014-73	IC SAP15P	
IC602	8-749-014-72	IC SAP15N	
IC603	8-749-014-73	IC SAP15P	
IC702	8-749-014-72	IC SAP15N	
IC703	8-749-014-73	IC SAP15P	
IC752	8-749-014-72	IC SAP15N	
IC753	8-749-014-73	IC SAP15P	
⚠T901	1-431-921-11	TRANSFORMER, POWER (DA555ES:US)	
⚠T901	1-431-922-11	TRANSFORMER, POWER (DA555ES:CND)	
⚠T901	1-431-925-11	TRANSFORMER, POWER (DA333ES:US)	
⚠T901	1-431-926-11	TRANSFORMER, POWER (DA333ES:CND)	

5.1 INPUT AC

SECTION 7
ELECTRICAL PARTS LIST

Note:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F : nonflammable
- SEMICONDUCTORS
  In each case, u: µ , for example:
  uA...: µ A..., uPA...: µ PA..., uPB...: µ PB..., uPC...: µ PC..., uPD...: µ PD...
- CAPACITORS
  uF : µ F
- COILS
  uH : µ H
- Abbreviation
  CND : Canadian model

Ref. No.	Part No.	Description			Remark
*	1-670-134-11	5.1 INPUT BOARD			
		**********			
		< CAPACITOR >			
C354	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C355	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C356	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C357	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C358	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C359	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C360	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C361	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
		< CONNECTOR >			
CNP351	1-779-799-11	PIN, CONNECTOR 9P			
CNP352	1-784-922-11	PIN, CONNECTOR 5P			
		< JACK >			
J351	1-779-685-11	JACK, PIN 6P (5.1 INPUT)			
J352	1-785-009-11	JACK, PIN 6P (FRONT/REAR WOOFER)			
J353	1-774-785-11	JACK, PIN 1P (CENTER)			
		< RESISTOR >			
R361	1-216-049-91	RES,CHIP	1K	5%	1/10W
R362	1-216-049-91	RES,CHIP	1K	5%	1/10W
R363	1-216-049-91	RES,CHIP	1K	5%	1/10W
R364	1-216-049-91	RES,CHIP	1K	5%	1/10W
R365	1-216-049-91	RES,CHIP	1K	5%	1/10W
R366	1-216-049-91	RES,CHIP	1K	5%	1/10W
R367	1-216-049-91	RES,CHIP	1K	5%	1/10W
R368	1-216-049-91	RES,CHIP	1K	5%	1/10W
R369	1-216-049-91	RES,CHIP	1K	5%	1/10W
R370	1-216-049-91	RES,CHIP	1K	5%	1/10W
R371	1-216-049-91	RES,CHIP	1K	5%	1/10W
R372	1-216-049-91	RES,CHIP	1K	5%	1/10W
R373	1-216-075-00	METAL CHIP	12K	5%	1/10W (DA333ES)
R373	1-216-077-00	METAL CHIP	15K	5%	1/10W (DA555ES)
R374	1-216-075-00	METAL CHIP	12K	5%	1/10W (DA333ES)
R374	1-216-077-00	METAL CHIP	15K	5%	1/10W (DA555ES)
R375	1-216-075-00	METAL CHIP	12K	5%	1/10W (DA333ES)
R375	1-216-077-00	METAL CHIP	15K	5%	1/10W (DA555ES)
R376	1-216-075-00	METAL CHIP	12K	5%	1/10W (DA333ES)
R376	1-216-077-00	METAL CHIP	15K	5%	1/10W (DA555ES)
R377	1-216-075-00	METAL CHIP	12K	5%	1/10W (DA333ES)
R377	1-216-077-00	METAL CHIP	15K	5%	1/10W (DA555ES)
R378	1-216-075-00	METAL CHIP	12K	5%	1/10W (DA333ES)
R378	1-216-077-00	METAL CHIP	15K	5%	1/10W (DA555ES)
R380	1-216-049-91	RES,CHIP	1K	5%	1/10W
R381	1-216-049-91	RES,CHIP	1K	5%	1/10W
R382	1-216-049-91	RES,CHIP	1K	5%	1/10W
R383	1-216-049-91	RES,CHIP	1K	5%	1/10W
R384	1-216-049-91	RES,CHIP	1K	5%	1/10W
R385	1-216-049-91	RES,CHIP	1K	5%	1/10W
**********					
*	1-670-132-11	AC BOARD			
		********			
		< CONNECTOR >			
CNP902	1-564-321-00	PIN, CONNECTOR 2P			
CNP903	1-564-321-00	PIN, CONNECTOR 2P			
* CNP905	1-565-792-11	PIN, CONNECTOR 2P			
* CNP907	1-568-951-11	PIN, CONNECTOR 2P			
		< DIODE >			
D907	8-719-911-19	DIODE 1SS119-25			
		< FUSE >			
⚠F901	1-533-312-11	FUSE, GLASS CYLINDRICAL (DIA.5)(10A/125V)			
		< FUSE HOLDER >			
FH901	1-533-217-31	HOLDER, FUSE			
FH901	1-533-293-11	FUSE HOLDER			
FH901	1-533-399-31	HOLDER, FUSE			
FH951	1-533-217-31	HOLDER, FUSE			
FH951	1-533-293-11	FUSE HOLDER			
FH951	1-533-399-31	HOLDER, FUSE			
		< JACK >			
⚠J901	1-251-718-11	OUTLET (2 GANG), AC			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W
		< RELAY >			
⚠RY901	1-515-999-11	RELAY, POWER			
**********					
*	A-4414-263-A	AUDIO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C291	1-162-294-31	CERAMIC	0.001uF	10%	50V
C292	1-126-048-81	ELECT	10uF	20%	50V
C293	1-126-048-81	ELECT	10uF	20%	50V
C294	1-126-048-81	ELECT	10uF	20%	50V
C295	1-162-282-31	CERAMIC	100PF	10%	50V
C296	1-126-048-81	ELECT	10uF	20%	50V
C301	1-164-159-11	CERAMIC	0.1uF		50V
C309	1-126-009-81	ELECT	100uF	20%	16V
C310	1-126-009-81	ELECT	100uF	20%	16V
C311	1-126-009-81	ELECT	100uF	20%	16V
C312	1-162-282-31	CERAMIC	100PF	10%	50V
C313	1-161-494-00	CERAMIC	0.022uF		25V
		< CONNECTOR >			
CNP201	1-784-924-11	PIN, CONNECTOR 8P			
CNP202	1-779-978-11	PIN, CONNECTOR 3P			
CNP304	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P			
		< IC >			
IC203	8-759-805-13	IC LC7821			
IC205	8-759-634-51	IC M5218AP			
IC302	8-759-708-05	IC NJM78L05A			
IC303	8-759-708-12	IC NJM78L12A			
		< JACK >			
J210	1-784-920-11	JACK, PIN 6P (VIDEO1/IN/OUT, VIDEO2 IN)			
J211	1-784-920-11	JACK, PIN 6P (VIDEO2 OUT, LD/DVD, TV/DBS)			
		< RESISTOR >			
R222	1-249-417-11	CARBON	1K	5%	1/4W F
R223	1-249-417-11	CARBON	1K	5%	1/4W F
R224	1-249-417-11	CARBON	1K	5%	1/4W F
R225	1-249-417-11	CARBON	1K	5%	1/4W F
R226	1-249-417-11	CARBON	1K	5%	1/4W F
R227	1-249-417-11	CARBON	1K	5%	1/4W F
R269	1-247-807-31	CARBON	100	5%	1/4W
R271	1-247-807-31	CARBON	100	5%	1/4W
R272	1-249-417-11	CARBON	1K	5%	1/4W F
R273	1-249-417-11	CARBON	1K	5%	1/4W F
R274	1-249-417-11	CARBON	1K	5%	1/4W F
R275	1-249-417-11	CARBON	1K	5%	1/4W F
R276	1-249-417-11	CARBON	1K	5%	1/4W F
R277	1-249-417-11	CARBON	1K	5%	1/4W F
R291	1-249-441-11	CARBON	100K	5%	1/4W
R292	1-249-441-11	CARBON	100K	5%	1/4W
R295	1-249-417-11	CARBON	1K	5%	1/4W F
R296	1-249-425-11	CARBON	4.7K	5%	1/4W F
R304	1-249-417-11	CARBON	1K	5%	1/4W F
R305	1-249-417-11	CARBON	1K	5%	1/4W F
R306	1-247-807-31	CARBON	100	5%	1/4W
R307	1-249-417-11	CARBON	1K	5%	1/4W F
R308	1-249-417-11	CARBON	1K	5%	1/4W F
R309	1-249-417-11	CARBON	1K	5%	1/4W F
R379	1-249-417-11	CARBON	1K	5%	1/4W F
**********					
*	1-670-140-11	BAL.VOL BOARD			
		**********			
		< CONNECTOR >			
CNS404	1-770-398-11	HOUSING, CONNECTOR(PC BOARD)5P			
		< VARIABLE RESISTOR >			
RV1140	1-225-663-11	RES, VAR, CARBON 100K/100K (BALANCE)			
**********					
*	A-4414-292-A	DIGITAL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1101	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1102	1-126-008-51	ELECT	47uF	20%	16V
C1103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1104	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1105	1-126-008-51	ELECT	47uF	20%	16V
C1106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1107	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C1108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1109	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1110	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1111	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1113	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1114	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1115	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1116	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1117	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1118	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1119	1-126-009-81	ELECT	100uF	20%	16V
C1120	1-126-009-81	ELECT	100uF	20%	16V
C1123	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1124	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1125	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1126	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1127	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1128	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1129	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1130	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1131	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1132	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1133	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1134	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1135	1-126-009-81	ELECT	100uF	20%	16V

DIGITAL

Ref. No.	Part No.	Description			Remark
C1136	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1138	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1140	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1141	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1207	1-126-048-81	ELECT	10uF	20%	50V
C1210	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1211	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1212	1-126-048-81	ELECT	10uF	20%	50V
C1213	1-126-021-11	ELECT	33uF	20%	25V
C1214	1-126-021-11	ELECT	33uF	20%	25V
C1215	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1216	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1217	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1218	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1220	1-126-021-11	ELECT	33uF	20%	25V
C1221	1-126-021-11	ELECT	33uF	20%	25V
C1222	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1223	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1224	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1225	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1227	1-126-021-11	ELECT	33uF	20%	25V
C1228	1-126-021-11	ELECT	33uF	20%	25V
C1229	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1230	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1231	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1232	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1234	1-130-473-00	MYLAR	0.0015uF	5%	50V
C1235	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1239	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1240	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1241	1-126-048-81	ELECT	10uF	20%	50V
C1242	1-126-048-81	ELECT	10uF	20%	50V
C1243	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1244	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1245	1-126-048-81	ELECT	10uF	20%	50V
C1246	1-126-048-81	ELECT	10uF	20%	50V
C1247	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1248	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1249	1-126-048-81	ELECT	10uF	20%	50V
C1250	1-126-048-81	ELECT	10uF	20%	50V
C1251	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1252	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1253	1-126-048-81	ELECT	10uF	20%	50V
C1254	1-126-048-81	ELECT	10uF	20%	50V
C1255	1-126-048-81	ELECT	10uF	20%	50V
C1256	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1257	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1258	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1259	1-126-048-81	ELECT	10uF	20%	50V
C1263	1-126-021-11	ELECT	33uF	20%	25V
C1264	1-126-021-11	ELECT	33uF	20%	25V
C1265	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1266	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1267	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1268	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1270	1-126-021-11	ELECT	33uF	20%	25V
C1271	1-126-021-11	ELECT	33uF	20%	25V
C1272	1-163-131-00	CERAMIC CHIP	390PF	5%	50V

Ref. No.	Part No.	Description			Remark
C1273	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1274	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1275	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1277	1-126-021-11	ELECT	33uF	20%	25V
C1278	1-126-021-11	ELECT	33uF	20%	25V
C1279	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1280	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1281	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1282	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1284	1-130-473-00	MYLAR	0.0015uF	5%	50V
C1285	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1286	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1287	1-126-048-81	ELECT	10uF	20%	50V
C1289	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1301	1-126-048-81	ELECT	10uF	20%	50V
C1302	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1304	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1305	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1306	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C1307	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1308	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1309	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1310	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1311	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1312	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1313	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1314	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V

< CONNECTOR >

CND1301	1-784-924-11	PIN, CONNECTOR 8P	
CND1302	1-506-469-11	PIN, CONNECTOR 4P	
* CND1303	1-568-938-11	PIN, CONNECTOR 11P	
CNE1301	1-764-330-11	PIN, CONNECTOR (PCB)(V TYPE)7P	
CNP1301	1-784-927-11	PIN, CONNECTOR 12P	
CNP1303	1-784-922-11	PIN, CONNECTOR 5P	
CNP1304	1-779-978-11	PIN, CONNECTOR 3P	
CNS1301	1-784-780-11	CONNECTOR, FFC 19P	
* CNS1304	1-568-939-11	PIN, CONNECTOR 12P	

< DIODE >

D1301	8-719-801-78	DIODE 1SS184
D1302	8-719-016-74	DIODE 1SS352
D1303	8-719-016-74	DIODE 1SS352
D1304	8-719-801-78	DIODE 1SS184
D1305	8-719-801-78	DIODE 1SS184
D1306	8-719-801-78	DIODE 1SS184
D1307	8-719-016-74	DIODE 1SS352
D1309	8-719-801-78	DIODE 1SS184

< GROUND PLATE >

EP1401	1-537-770-21	TERMINAL BOARD, GROUND

< IC >

IC1101	8-759-294-79	IC CXD8495AQ
IC1102	8-759-530-30	IC TC74VHCU04FT(EL)
IC1103	8-759-553-27	IC MSM531031B-84GS-KR1
IC1104	8-759-524-52	IC TC74VHC574FT(EL)

Ref. No.	Part No.	Description			Remark
IC1105	8-759-524-52	IC TC74VHC574FT(EL)			
IC1106	8-759-538-17	IC CS4926			
IC1107	8-759-523-78	IC TC74VHC00FT(EL)			
IC1108	8-759-524-32	IC TC74VHC367FT(EL)			
IC1109	8-759-524-48	IC TC74VHC393FT(EL)			
IC1110	8-759-546-46	IC IDT71V124S15YAU-TL			
IC1111	8-759-546-46	IC IDT71V124S15YAU-TL			
IC1112	8-752-391-87	IC CXD2712R			
IC1113	8-759-195-02	IC TC7S86F-TE85L			
IC1201	8-759-577-08	IC MB90574PFV-G-176-BND			
IC1202	8-759-536-23	IC AK4324-VF-E2			
IC1203	8-759-536-23	IC AK4324-VF-E2			
IC1204	8-759-536-23	IC AK4324-VF-E2			
IC1205	8-759-636-55	IC M5218AFP			
IC1206	8-759-636-55	IC M5218AFP			
IC1207	8-759-636-55	IC M5218AFP			
IC1208	8-759-636-55	IC M5218AFP			
IC1209	8-759-636-55	IC M5218AFP			
IC1210	8-759-462-08	IC AK5352-VF-E2			
		< TRANSISTOR >			
Q1301	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1302	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1303	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1304	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1305	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1306	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1307	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q1308	8-729-027-43	TRANSISTOR DTC114EKA-T146			
		< RESISTOR >			
R1101	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1102	1-216-025-91	RES,CHIP	100	5%	1/10W
R1103	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1104	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1105	1-216-082-00	RES,CHIP	24K	5%	1/10W
R1106	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R1107	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R1108	1-216-029-00	METAL CHIP	150	5%	1/10W
R1109	1-216-104-00	METAL CHIP	200K	5%	1/10W
R1110	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1111	1-216-025-91	RES,CHIP	100	5%	1/10W
R1112	1-216-025-91	RES,CHIP	100	5%	1/10W
R1113	1-216-025-91	RES,CHIP	100	5%	1/10W
R1114	1-216-025-91	RES,CHIP	100	5%	1/10W
R1115	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1116	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1117	1-216-025-91	RES,CHIP	100	5%	1/10W
R1118	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1119	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1120	1-216-025-91	RES,CHIP	100	5%	1/10W
R1121	1-216-041-00	METAL CHIP	470	5%	1/10W
R1122	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1123	1-216-025-91	RES,CHIP	100	5%	1/10W
R1124	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1125	1-216-025-91	RES,CHIP	100	5%	1/10W
R1126	1-216-025-91	RES,CHIP	100	5%	1/10W
R1127	1-216-025-91	RES,CHIP	100	5%	1/10W
R1128	1-216-025-91	RES,CHIP	100	5%	1/10W
R1129	1-216-025-91	RES,CHIP	100	5%	1/10W
R1130	1-216-025-91	RES,CHIP	100	5%	1/10W
R1131	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1133	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1134	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1135	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1136	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1137	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1138	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1139	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1140	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1141	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1142	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1143	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1144	1-216-025-91	RES,CHIP	100	5%	1/10W
R1145	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1146	1-216-025-91	RES,CHIP	100	5%	1/10W
R1147	1-216-025-91	RES,CHIP	100	5%	1/10W
R1148	1-216-025-91	RES,CHIP	100	5%	1/10W
R1150	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1151	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1152	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1153	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1202	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1203	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1204	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1205	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1206	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1207	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1208	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1209	1-216-033-00	METAL CHIP	220	5%	1/10W
R1210	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1211	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1213	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1214	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1218	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1219	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1221	1-216-033-00	METAL CHIP	220	5%	1/10W
R1222	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1227	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1228	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1229	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1230	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1231	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1233	1-216-033-00	METAL CHIP	220	5%	1/10W
R1234	1-216-037-00	METAL CHIP	330	5%	1/10W
R1235	1-216-037-00	METAL CHIP	330	5%	1/10W
R1238	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1242	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1243	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1244	1-216-001-00	METAL CHIP	10	5%	1/10W
R1245	1-216-001-00	METAL CHIP	10	5%	1/10W
R1246	1-216-001-00	METAL CHIP	10	5%	1/10W
R1247	1-216-001-00	METAL CHIP	10	5%	1/10W
R1248	1-216-001-00	METAL CHIP	10	5%	1/10W

DIGITAL

Ref. No.	Part No.	Description			Remark
R1249	1-216-001-00	METAL CHIP	10	5%	1/10W
R1252	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1253	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1254	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1255	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1256	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1257	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1259	1-216-033-00	METAL CHIP	220	5%	1/10W
R1260	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1261	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1263	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1264	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1268	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1269	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1271	1-216-033-00	METAL CHIP	220	5%	1/10W
R1272	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1277	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1278	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1279	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1280	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1281	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1283	1-216-033-00	METAL CHIP	220	5%	1/10W
R1284	1-216-037-00	METAL CHIP	330	5%	1/10W
R1285	1-216-037-00	METAL CHIP	330	5%	1/10W
R1286	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1287	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1288	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1292	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1293	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1301	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1302	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1303	1-216-025-91	RES,CHIP	100	5%	1/10W
R1304	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1305	1-216-041-00	METAL CHIP	470	5%	1/10W
R1306	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1307	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1308	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1309	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1310	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1311	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1312	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1313	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1314	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1315	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1316	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1317	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1318	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1319	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1320	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1321	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1322	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1323	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1324	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1325	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1326	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1327	1-216-689-11	METAL CHIP	39K	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R1328	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1329	1-216-041-00	METAL CHIP	470	5%	1/10W
R1330	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1331	1-216-025-91	RES,CHIP	100	5%	1/10W
R1332	1-216-025-91	RES,CHIP	100	5%	1/10W
R1333	1-216-025-91	RES,CHIP	100	5%	1/10W
R1334	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1337	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1338	1-216-041-00	METAL CHIP	470	5%	1/10W
R1339	1-216-041-00	METAL CHIP	470	5%	1/10W
R1340	1-216-041-00	METAL CHIP	470	5%	1/10W
R1341	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1342	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1343	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1344	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1345	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1346	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1347	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1348	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1349	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1350	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1351	1-216-025-91	RES,CHIP	100	5%	1/10W
R1352	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1353	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1354	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1355	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1356	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1357	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1358	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1359	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1360	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1361	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1362	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1363	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1364	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1365	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1366	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1367	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1368	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1369	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1370	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1371	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1372	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1373	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1374	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1375	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1376	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1377	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1378	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1379	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1383	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1384	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1385	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1386	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1387	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1388	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1389	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1390	1-216-049-91	RES,CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1391	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1392	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1393	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1394	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1395	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1396	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1397	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1401	1-216-080-00	METAL CHIP	20K	5%	1/10W
R1402	1-216-080-00	METAL CHIP	20K	5%	1/10W
		< VIBRATOR >			
X1101	1-567-970-11	VIBRATOR, CRYSTAL (24.576MHz)			
X1102	1-767-949-21	VIBRATOR, CERAMIC (49.152MHz)			
X1301	1-767-359-11	VIBRATOR, CERAMIC (4MHz)			
**********					
*	A-4414-295-A	DIGITAL INPUT BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C3301	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3302	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3303	1-126-925-11	ELECT	470uF	20%	10V
C3306	1-164-346-11	CERAMIC CHIP	1uF		16V
C3307	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3308	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3309	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3310	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
CNS3301	1-784-925-11	PIN, CONNECTOR 10P			
		< DIODE >			
D3001	8-719-016-74	DIODE 1SS352			
		< IC >			
IC3301	8-749-923-05	IC TORX178 (DVD/LD IN OPT)			
IC3302	8-749-923-05	IC TORX178 (TV/DBS IN OPT)			
IC3303	8-749-923-05	IC TORX178 (MD/DAT IN OPT)			
IC3304	8-749-923-04	IC TOTX178 (MD/DAT OUT OPT)			
IC3310	8-759-236-17	IC TC74HC151AF-TP1			
IC3311	8-749-923-05	IC TORX178 (CD IN OPT)			
IC3314	8-759-233-64	IC TC74HCU04AF			
		< JACK >			
J3301	1-770-905-11	JACK, PIN 1P (DVD/LD COAXIAL)			
		< RESISTOR >			
R3301	1-216-025-91	RES,CHIP	100	5%	1/10W
R3303	1-216-025-91	RES,CHIP	100	5%	1/10W
R3304	1-216-025-91	RES,CHIP	100	5%	1/10W
R3305	1-216-115-00	METAL CHIP	560K	5%	1/10W
R3309	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3310	1-216-025-91	RES,CHIP	100	5%	1/10W
R3312	1-216-025-91	RES,CHIP	100	5%	1/10W
R3313	1-216-025-91	RES,CHIP	100	5%	1/10W
R3314	1-216-025-91	RES,CHIP	100	5%	1/10W
R3315	1-216-049-91	RES,CHIP	1K	5%	1/10W
**********					
	A-4419-733-A	DISPLAY BOARD, COMPLETE (DA555ES)			
		**********			
	A-4419-735-A	DISPLAY BOARD, COMPLETE (DA333ES)			
		**********			
*	4-921-941-01	CUSHION (FL)			
*	4-990-797-01	HOLDER (FL)			
		< CAPACITOR >			
C101	1-126-786-11	ELECT	47uF	20%	16V
C102	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C103	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C104	1-126-795-11	ELECT	10uF	20%	50V
C105	1-104-905-11	CAPACITOR	0.22F		5.5V
C106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C107	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C109	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C110	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C111	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C112	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C113	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C114	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C115	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C116	1-126-786-11	ELECT	47uF	20%	16V
C117	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C118	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C119	1-126-786-11	ELECT	47uF	20%	16V
C120	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C121	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C122	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C123	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C124	1-126-382-11	ELECT	100uF	20%	10V
C125	1-126-382-11	ELECT	100uF	20%	10V
C126	1-104-942-11	ELECT	1uF	20%	50V
C127	1-104-942-11	ELECT	1uF	20%	50V
C131	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C132	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C133	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C134	1-107-818-11	CAPACITOR	1F		5.5V
C914	1-126-795-11	ELECT	10uF	20%	50V
C915	1-126-795-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CNP105	1-568-949-11	PIN, CONNECTOR 11P			
CNP106	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
* CNP107	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
* CNS101	1-565-482-11	CONNECTOR, BOARD TO BOARD 6P			
		< DIODE >			
D101	8-719-016-74	DIODE 1SS352			
D102	8-719-210-33	DIODE EC10DS2			

DISPLAY

Ref. No.	Part No.	Description	Remark
D103	8-719-016-74	DIODE 1SS352	
D104	8-719-016-74	DIODE 1SS352	
D107	8-719-046-39	DIODE SEL5821A-TH15 (SURROUND FIELD ON/OFF)	
D108	8-719-313-45	DIODE SEL6810A-TH10 (CURSOR SUR)	
D109	8-719-313-45	DIODE SEL6810A-TH10 (CURSOR EQ)	
D110	8-719-313-45	DIODE SEL6810A-TH10 (CURSOR INDEX)	
D111	8-719-064-55	DIODE SEC1803C (PHONO)	
D112	8-719-064-55	DIODE SEC1803C (TUNER)	
D113	8-719-064-55	DIODE SEC1803C (CD)	
D114	8-719-064-55	DIODE SEC1803C (MD/DAT)	
D115	8-719-064-55	DIODE SEC1803C (TAPE)	
D116	8-719-064-56	DIODE SEC2484C (TV/DBS (TV/LD))	
D117	8-719-064-56	DIODE SEC2484C (DVD/LD (DVD))	
D118	8-719-064-56	DIODE SEC2484C (VIDEO3)	
D119	8-719-064-56	DIODE SEC2484C (VIDEO2)	
D120	8-719-064-56	DIODE SEC2484C (VIDEO1)	
D121	8-719-313-45	DIODE SEL6810A-TH10 (BASS BOOST)	
D124	8-719-059-14	DIODE SID313BP-TP19	
D125	8-719-059-14	DIODE SID313BP-TP19	
D126	8-719-016-74	DIODE 1SS352	
D127	8-719-016-74	DIODE 1SS352	
D128	8-719-064-57	DIODE SID5K23CTP15	
D129	8-719-801-78	DIODE 1SS184	
D913	8-719-977-81	DIODE DTZ33B	
		< FLUORESCENT INDICATOR >	
FL101	1-517-781-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC101	8-759-459-86	IC NJL64H400A	
IC102	8-759-586-43	IC MB90553APF-G-139-BND	
IC103	8-759-823-87	IC LB1638M	
IC104	8-759-075-35	IC TD62C950RF	
IC105	8-759-389-51	IC MSC1164GS-KR1	
IC106	8-759-545-07	IC TMP87C447U-4A06	
IC107	8-759-235-19	IC TC74HC08AF(EL)	
		< JUMPER RESISTOR >	
JW21	1-216-295-91	SHORT 0 (DA333ES)	
JW22	1-216-295-91	SHORT 0 (DA555ES)	
		< COIL >	
L101	1-500-425-11	FERRITE 0uH	
		< TRANSISTOR >	
Q101	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q102	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q103	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q104	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q105	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q106	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q107	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q108	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q109	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q110	8-729-027-43	TRANSISTOR DTC114EKA-T146	

Ref. No.	Part No.	Description	Remark
Q111	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q112	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q113	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q114	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q115	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q116	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q118	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q119	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q120	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q121	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q122	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q123	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q124	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q125	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q126	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q127	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q128	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q129	8-729-010-35	TRANSISTOR MSD602-RT1	
Q130	8-729-010-35	TRANSISTOR MSD602-RT1	
Q971	8-729-822-05	TRANSISTOR 2SD1622-ST-TD	
		< RESISTOR >	
R101	1-219-163-11	RES,CHIP 1.1 5% 1/10W	
R103	1-216-089-91	RES,CHIP 47K 5% 1/10W	
R105	1-216-001-00	METAL CHIP 10 5% 1/10W	
R106	1-216-001-00	METAL CHIP 10 5% 1/10W	
R107	1-216-001-00	METAL CHIP 10 5% 1/10W	
R108	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R109	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R110	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R111	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R112	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R113	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R114	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
R115	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R116	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R117	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R118	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R119	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R120	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R121	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R122	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R123	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R124	1-216-029-00	METAL CHIP 150 5% 1/10W	
R125	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R126	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R127	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R128	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R129	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R130	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R131	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R132	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R133	1-216-037-00	METAL CHIP 330 5% 1/10W	
R134	1-216-037-00	METAL CHIP 330 5% 1/10W	
R135	1-216-033-00	METAL CHIP 220 5% 1/10W	
R136	1-216-037-00	METAL CHIP 330 5% 1/10W	
R137	1-216-037-00	METAL CHIP 330 5% 1/10W	

Ref. No.	Part No.	Description			Remark
R138	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R139	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R140	1-216-037-00	METAL CHIP	330	5%	1/10W
R141	1-216-041-00	METAL CHIP	470	5%	1/10W
R142	1-216-045-00	METAL CHIP	680	5%	1/10W
R143	1-216-049-91	RES,CHIP	1K	5%	1/10W
R144	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R145	1-216-037-00	METAL CHIP	330	5%	1/10W
R146	1-216-041-00	METAL CHIP	470	5%	1/10W
R147	1-216-045-00	METAL CHIP	680	5%	1/10W
R148	1-216-049-91	RES,CHIP	1K	5%	1/10W
R149	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R150	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R151	1-216-037-00	METAL CHIP	330	5%	1/10W
R152	1-216-041-00	METAL CHIP	470	5%	1/10W
R153	1-216-045-00	METAL CHIP	680	5%	1/10W
R154	1-216-037-00	METAL CHIP	330	5%	1/10W
R161	1-216-049-91	RES,CHIP	1K	5%	1/10W
R162	1-216-049-91	RES,CHIP	1K	5%	1/10W
R163	1-216-073-00	METAL CHIP	10K	5%	1/10W
R164	1-216-097-91	RES,CHIP	100K	5%	1/10W
R165	1-216-073-00	METAL CHIP	10K	5%	1/10W
R166	1-216-097-91	RES,CHIP	100K	5%	1/10W
R167	1-216-302-00	METAL CHIP	2.7	5%	1/10W
R168	1-216-049-91	RES,CHIP	1K	5%	1/10W
R169	1-216-049-91	RES,CHIP	1K	5%	1/10W
R170	1-216-049-91	RES,CHIP	1K	5%	1/10W
R171	1-216-049-91	RES,CHIP	1K	5%	1/10W
R172	1-216-049-91	RES,CHIP	1K	5%	1/10W
R173	1-216-097-91	RES,CHIP	100K	5%	1/10W
R177	1-216-073-00	METAL CHIP	10K	5%	1/10W
R915	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
RR10	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
RR20	1-216-065-91	RES,CHIP 4.7K 5% 1/10W			
RR21	1-216-037-00	METAL CHIP 330 5% 1/10W			
RR22	1-216-041-00	METAL CHIP	470	5%	1/10W (DA555ES)
		< SWITCH >			
S103	1-572-184-11	SWITCH, KEYBOARD (INPUT MODE)			
S104	1-572-184-11	SWITCH, KEYBOARD (SLEEP)			
S105	1-572-184-11	SWITCH, KEYBOARD (DIMMER)			
S106	1-572-184-11	SWITCH, KEYBOARD (TUNING +)			
S107	1-572-184-11	SWITCH, KEYBOARD (TUNING -)			
S108	1-572-184-11	SWITCH, KEYBOARD (FM MODE)			
S109	1-572-184-11	SWITCH, KEYBOARD (DOWN)			
S110	1-572-184-11	SWITCH, KEYBOARD (UP)			
S111	1-572-184-11	SWITCH, KEYBOARD (LEFT)			
S112	1-572-184-11	SWITCH, KEYBOARD (CURSOR MODE)			
S113	1-572-184-11	SWITCH, KEYBOARD (EQUALIZER)			
S114	1-572-184-11	SWITCH, KEYBOARD (MODE)			
S115	1-572-184-11	SWITCH, KEYBOARD (GENRE)			
S116	1-572-184-11	SWITCH, KEYBOARD (BASS BOOST)			
S117	1-572-184-11	SWITCH, KEYBOARD (RIGHT)			
S118	1-572-184-11	SWITCH, KEYBOARD (SET UP)			
S119	1-572-184-11	SWITCH, KEYBOARD (SOUND FIELD ON/OFF)			

Ref. No.	Part No.	Description			Remark
S120	1-572-184-11	SWITCH, KEYBOARD (MEMORY)			
S121	1-572-184-11	SWITCH, KEYBOARD (DISPLAY)			
		< TRANSFORMER >			
T902	1-431-387-11	TRANSFORMER, POWER (DA555ES)			
		< VIBRATOR >			
X101	1-767-359-11	VIBRATOR, CERAMIC (4MHz)			
X102	1-767-938-21	VIBRATOR, CERAMIC (7.28MHz)			
**********					
*	1-670-146-11	ENCODER BOARD **********			
		< CONNECTOR >			
CNP101	1-779-977-11	PIN, CONNECTOR 6P			
		< DIODE >			
D123	8-719-313-45	DIODE SEL6810A-TH10			
		< RESISTOR >			
R102	1-249-411-11	CARBON	330	5%	1/4W
R159	1-249-417-11	CARBON	1K	5%	1/4W F
R160	1-249-419-11	CARBON	1.5K	5%	1/4W F
		< VARIABLE RESISTOR >			
RV101	1-467-808-21	ENCODER, ROTARY			
		< SWITCH >			
S126	1-572-184-11	SWITCH, KEYBOARD (MODE)			
S127	1-572-184-11	SWITCH, KEYBOARD (MUTING)			
**********					
*	1-670-145-11	FRONT VIDEO BOARD **********			
		< CAPACITOR >			
C299	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN804	1-564-725-11	PIN, CONNECTOR (SMALL TYPE) 9P			
		< JACK >			
J809	1-784-808-11	TERMINAL, S (S VIDEO3)			
J810	1-779-798-11	JACK, PIN (BLOCK) (L TYPE) 3P (VIDEO3/AUDIO3)			
		< RESISTOR >			
R890	1-249-417-11	CARBON	1K	5%	1/4W F
R891	1-249-417-11	CARBON	1K	5%	1/4W F
R892	1-247-804-11	CARBON	75	5%	1/4W
R893	1-247-804-11	CARBON	75	5%	1/4W
R894	1-247-804-11	CARBON	75	5%	1/4W
**********					

HP LED MAIN

Ref. No.	Part No.	Description			Remark
*	1-670-139-11	HP BOARD			
		********			
		< JACK >			
J701	1-568-519-41	JACK, LARGE TYPE (PHONES)			
**********					
*	1-670-147-11	LED BOARD			
		*********			
		< CAPACITOR >			
C128	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< DIODE >			
D122	8-719-070-83	DIODE SELU5E20C-TP15 (DOLBY DIGITAL)			
		< RESISTOR >			
R174	1-216-073-00	METAL CHIP	10K	5%	1/10W
**********					
	A-4419-732-A	MAIN BOARD, COMPLETE (DA555ES)			
		**********			
	A-4419-736-A	MAIN BOARD, COMPLETE (DA333ES)			
		**********			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C201	1-126-047-81	ELECT	4.7uF	20%	50V
C203	1-162-283-31	CERAMIC	120PF	10%	50V
C204	1-124-995-11	ELECT	220uF	20%	10V
C205	1-125-896-91	MYLAR	0.0091uF	5%	50V
C206	1-136-159-00	FILM	0.033uF	5%	50V
C207	1-126-045-11	ELECT	2.2uF	20%	50V
C208	1-126-009-81	ELECT	100uF	20%	16V
C211	1-126-021-11	ELECT	33uF	20%	25V
C216	1-126-021-11	ELECT	33uF	20%	25V
C217	1-126-008-51	ELECT	47uF	20%	16V
C224	1-101-810-00	CERAMIC	100PF	5%	500V
C225	1-162-294-31	CERAMIC	0.001uF	10%	50V
C248	1-126-009-81	ELECT	100uF	20%	16V
C249	1-126-009-81	ELECT	100uF	20%	16V
C251	1-126-047-81	ELECT	4.7uF	20%	50V
C253	1-162-283-31	CERAMIC	120PF	10%	50V
C254	1-124-995-11	ELECT	220uF	20%	10V
C255	1-125-896-91	MYLAR	0.0091uF	5%	50V
C256	1-136-159-00	FILM	0.033uF	5%	50V
C257	1-126-045-11	ELECT	2.2uF	20%	50V
C258	1-126-009-81	ELECT	100uF	20%	16V
C261	1-126-021-11	ELECT	33uF	20%	25V
C266	1-126-021-11	ELECT	33uF	20%	25V
C267	1-126-008-51	ELECT	47uF	20%	16V
C274	1-101-810-00	CERAMIC	100PF	5%	500V
C275	1-162-294-31	CERAMIC	0.001uF	10%	50V
C297	1-162-294-31	CERAMIC	0.001uF	10%	50V
C351	1-126-009-81	ELECT	100uF	20%	16V

Ref. No.	Part No.	Description			Remark
C352	1-126-009-81	ELECT	100uF	20%	16V
C353	1-162-294-31	CERAMIC	0.001uF	10%	50V
C401	1-124-994-11	ELECT	100uF	20%	10V
C402	1-124-994-11	ELECT	100uF	20%	10V
C403	1-124-994-11	ELECT	100uF	20%	10V
C404	1-162-199-31	CERAMIC	10PF	5%	50V
C405	1-162-199-31	CERAMIC	10PF	5%	50V
C406	1-162-199-31	CERAMIC	10PF	5%	50V
C407	1-126-021-11	ELECT	33uF	20%	25V
C408	1-126-021-11	ELECT	33uF	20%	25V
C409	1-126-021-11	ELECT	33uF	20%	25V
C410	1-126-021-11	ELECT	33uF	20%	25V
C411	1-126-021-11	ELECT	33uF	20%	25V
C412	1-126-021-11	ELECT	33uF	20%	25V
C413	1-126-021-11	ELECT	33uF	20%	25V
C414	1-102-508-91	CERAMIC	10PF	0.5PF	50V
C415	1-126-021-11	ELECT	33uF	20%	25V
C416	1-102-508-91	CERAMIC	10PF	0.5PF	50V
C451	1-124-994-11	ELECT	100uF	20%	10V
C452	1-124-994-11	ELECT	100uF	20%	10V
C453	1-124-994-11	ELECT	100uF	20%	10V
C454	1-162-199-31	CERAMIC	10PF	5%	50V
C455	1-162-199-31	CERAMIC	10PF	5%	50V
C456	1-162-199-31	CERAMIC	10PF	5%	50V
C457	1-126-021-11	ELECT	33uF	20%	25V
C458	1-126-021-11	ELECT	33uF	20%	25V
C459	1-126-021-11	ELECT	33uF	20%	25V
C460	1-126-021-11	ELECT	33uF	20%	25V
C461	1-126-021-11	ELECT	33uF	20%	25V
C462	1-126-021-11	ELECT	33uF	20%	25V
C463	1-126-021-11	ELECT	33uF	20%	25V
C464	1-102-508-91	CERAMIC	10PF	0.5PF	50V
C494	1-126-008-51	ELECT	47uF	20%	16V
C495	1-126-008-51	ELECT	47uF	20%	16V
C501	1-126-047-81	ELECT	4.7uF	20%	50V
C502	1-162-283-31	CERAMIC	120PF	10%	50V
C503	1-124-995-11	ELECT	220uF	20%	10V
C504	1-102-233-00	CERAMIC	33PF	10%	500V
C505	1-102-934-00	CERAMIC	1.0PF	±0.25PF	50V
C514	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V
C520	1-126-008-51	ELECT	47uF	20%	16V
C521	1-107-597-11	CERAMIC	22PF	10%	500V
C522	1-107-597-11	CERAMIC	22PF	10%	500V
C523	1-162-286-31	CERAMIC	220PF	10%	50V
C524	1-136-157-00	FILM	0.022uF	5%	50V
C525	1-124-997-11	ELECT	470uF	20%	6.3V
C526	1-126-049-11	ELECT	22uF	20%	50V
C529	1-130-475-00	MYLAR	0.0022uF	5%	50V
C530	1-130-475-00	MYLAR	0.0022uF	5%	50V
C551	1-126-047-81	ELECT	4.7uF	20%	50V
C552	1-162-283-31	CERAMIC	120PF	10%	50V
C553	1-124-995-11	ELECT	220uF	20%	10V
C554	1-102-233-00	CERAMIC	33PF	10%	500V
C555	1-102-934-00	CERAMIC	1.0PF	±0.25PF	50V
C564	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V
C570	1-126-008-51	ELECT	47uF	20%	16V
C571	1-107-597-11	CERAMIC	22PF	10%	500V

Ref. No.	Part No.	Description			Remark
C572	1-107-597-11	CERAMIC	22PF	10%	500V
C573	1-162-286-31	CERAMIC	220PF	10%	50V
C574	1-136-157-00	FILM	0.022uF	5%	50V
C579	1-130-475-00	MYLAR	0.0022uF	5%	50V
C580	1-130-475-00	MYLAR	0.0022uF	5%	50V
C598	1-126-077-11	ELECT	100uF	20%	100V
C599	1-126-077-11	ELECT	100uF	20%	100V
C601	1-126-047-81	ELECT	4.7uF	20%	50V
C602	1-162-283-31	CERAMIC	120PF	10%	50V
C603	1-124-995-11	ELECT	220uF	20%	10V
C604	1-102-233-00	CERAMIC	33PF	10%	500V
C605	1-102-934-00	CERAMIC	1.0PF	±0.25PF	50V
C614	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V
C620	1-126-008-51	ELECT	47uF	20%	16V
C621	1-107-597-11	CERAMIC	22PF	10%	500V
C622	1-107-597-11	CERAMIC	22PF	10%	500V
C623	1-162-286-31	CERAMIC	220PF	10%	50V
C624	1-136-157-00	FILM	0.022uF	5%	50V
C629	1-130-475-00	MYLAR	0.0022uF	5%	50V
C630	1-130-475-00	MYLAR	0.0022uF	5%	50V
C651	1-126-047-81	ELECT	4.7uF	20%	50V
C652	1-162-283-31	CERAMIC	120PF	10%	50V
C653	1-124-995-11	ELECT	220uF	20%	10V
C654	1-102-233-00	CERAMIC	33PF	10%	500V
C664	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V
C951	1-136-153-00	FILM	0.01uF	5%	50V
C952	1-136-153-00	FILM	0.01uF	5%	50V
C953	1-126-041-11	ELECT	2200uF	20%	35V
C954	1-126-041-11	ELECT	2200uF	20%	35V
C955	1-126-026-11	ELECT	470uF	20%	25V
C956	1-126-026-11	ELECT	470uF	20%	25V
C960	1-119-796-21	ELECT	4700uF	20%	16V
C961	1-119-841-11	ELECT	1000uF	20%	63V
C962	1-126-012-11	ELECT	470uF	20%	16V
C963	1-164-159-11	CERAMIC	0.1uF		50V
C965	1-136-153-00	FILM	0.01uF	5%	50V
C966	1-136-153-00	FILM	0.01uF	5%	50V
C991	1-126-040-11	ELECT	1000uF	20%	35V
C992	1-107-913-11	ELECT	470uF	20%	35V (DA555ES)
C993	1-126-044-11	ELECT	1uF	20%	50V (DA555ES)
		< CONNECTOR >			
CNP502	1-779-978-11	PIN, CONNECTOR 3P			
CNP601	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P			
CNP911	1-779-978-11	PIN, CONNECTOR 3P			
CNP951	1-785-102-11	PIN, CONNECTOR 4P			
CNP952	1-785-103-11	PIN, CONNECTOR 5P			
CNP992	1-764-326-11	PIN, CONNECTOR (PCB)(V TYPE) 3P(DA555ES)			
CNS409	1-569-323-11	SOCKET, CONNECTOR 19P			
CNV501	1-785-104-11	PIN, CONNECTOR 6P			
		< DIODE >			
D301	8-719-911-19	DIODE 1SS119-25			
D302	8-719-911-19	DIODE 1SS119-25			
D303	8-719-911-19	DIODE 1SS119-25			
D351	8-719-911-19	DIODE 1SS119-25			
D352	8-719-911-19	DIODE 1SS119-25			

Ref. No.	Part No.	Description	Remark
D353	8-719-911-19	DIODE 1SS119-25	
D401	8-719-911-19	DIODE 1SS119-25	
D501	8-719-911-19	DIODE 1SS119-25	
D502	8-719-911-19	DIODE 1SS119-25	
D503	8-719-109-51	DIODE RD2.0ES-B2	
D504	8-719-911-19	DIODE 1SS119-25	
D505	8-719-911-19	DIODE 1SS119-25	
D506	8-719-911-19	DIODE 1SS119-25	
D507	8-719-911-19	DIODE 1SS119-25	
D547	8-719-911-19	DIODE 1SS119-25	
D548	8-719-911-19	DIODE 1SS119-25	
D549	8-719-911-19	DIODE 1SS119-25	
D551	8-719-911-19	DIODE 1SS119-25	
D552	8-719-911-19	DIODE 1SS119-25	
D553	8-719-109-51	DIODE RD2.0ES-B2	
D554	8-719-911-19	DIODE 1SS119-25	
D555	8-719-911-19	DIODE 1SS119-25	
D601	8-719-911-19	DIODE 1SS119-25	
D602	8-719-911-19	DIODE 1SS119-25	
D603	8-719-109-51	DIODE RD2.0ES-B2	
D604	8-719-911-19	DIODE 1SS119-25	
D605	8-719-911-19	DIODE 1SS119-25	
D655	8-719-911-19	DIODE 1SS119-25	
D951	8-719-024-99	DIODE 11ES2-NTA2B	
D952	8-719-024-99	DIODE 11ES2-NTA2B	
D953	8-719-024-99	DIODE 11ES2-NTA2B	
D954	8-719-024-99	DIODE 11ES2-NTA2B	
D955	8-719-025-03	DIODE RBA-402-SL	
D991	8-719-024-99	DIODE 11ES2-NTA2B	
D992	8-719-024-99	DIODE 11ES2-NTA2B	
		< GROUND PLATE >	
* EP902	1-537-738-21	TERMINAL, EARTH	
		< FUSE >	
⚠F951	1-533-614-11	FUSE, GLASS CYLLINDERICAL (1.6A/125V)	
⚠F952	1-533-614-11	FUSE, GLASS CYLLINDERICAL (1.6A/125V)	
⚠F953	1-533-690-11	FUSE, GLASS CYLLINDERICAL (DIA.5) (3.15A/125V)	
		< FUSE HOLDER >	
FH901	1-533-217-31	HOLDER, FUSE	
FH902	1-533-217-31	HOLDER, FUSE	
FH903	1-533-217-31	HOLDER, FUSE	
FH951	1-533-217-31	HOLDER, FUSE	
FH952	1-533-217-31	HOLDER, FUSE	
FH953	1-533-217-31	HOLDER, FUSE	
		< IC >	
IC201	8-759-636-74	IC M5218AP-22	
IC202	8-759-805-13	IC LC7821	
IC204	8-759-636-74	IC M5218AP-22	
IC351	8-759-805-14	IC LC7822	
IC401	8-759-636-74	IC M5218AP-22	
IC402	8-759-636-74	IC M5218AP-22	
IC405	8-759-636-74	IC M5218AP-22	

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Replace only with part number specified.

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MAIN

Ref. No.	Part No.	Description	Remark
IC406	8-759-636-74	IC M5218AP-22	
IC407	8-759-636-74	IC M5218AP-22	
IC501	8-759-326-52	IC uPC2581V	
IC502	8-749-014-72	IC SAP15N	
IC503	8-749-014-73	IC SAP15P	
IC552	8-749-014-72	IC SAP15N	
IC553	8-749-014-73	IC SAP15P	
IC601	8-759-326-52	IC uPC2581V	
IC602	8-749-014-72	IC SAP15N	
IC603	8-749-014-73	IC SAP15P	
IC902	8-759-445-59	IC BA033T	
IC951	8-759-231-59	IC TA7815S	
IC952	8-759-245-87	IC TA7915S	
IC955	8-759-231-53	IC TA7805S	
		< JACK >	
J202	1-784-920-11	JACK, PIN 6P (PHONO/CD/MD DAT REC OUT)	
J203	1-784-920-11	JACK, PIN 6P (MD DAT IN/TAPE)	
		< COIL >	
L501	1-411-906-11	COIL, AIR-CORE	
L551	1-411-906-11	COIL, AIR-CORE	
L601	1-411-906-11	COIL, AIR-CORE	
		< TRANSISTOR >	
Q201	8-729-900-36	TRANSISTOR DTC124ES	
Q202	8-729-900-63	TRANSISTOR DTA124ES	
Q203	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q253	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q301	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q303	8-729-900-63	TRANSISTOR DTA124ES	
Q351	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q352	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q353	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q354	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q355	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q356	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q508	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q509	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q545	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q546	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q547	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q548	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q549	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q558	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q559	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q608	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q609	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q659	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q991	8-729-111-29	TRANSISTOR 2SD1616A-K (DA555ES)	
Q992	8-729-119-79	TRANSISTOR 2SC2785-FEK (DA555ES)	
		< RESISTOR >	
R202	1-249-441-11	CARBON 100K 5% 1/4W	
R203	1-249-440-11	CARBON 82K 5% 1/4W	
R204	1-249-408-11	CARBON 180 5% 1/4W	F
R205	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R206	1-249-441-11	CARBON 100K 5% 1/4W	
R207	1-249-441-11	CARBON 100K 5% 1/4W	
R208	1-249-413-11	CARBON 470 5% 1/4W	F
R209	1-247-807-31	CARBON 100 5% 1/4W	
R211	1-249-417-11	CARBON 1K 5% 1/4W	F
R212	1-249-417-11	CARBON 1K 5% 1/4W	F
R213	1-249-417-11	CARBON 1K 5% 1/4W	F
R214	1-249-417-11	CARBON 1K 5% 1/4W	F
R215	1-249-401-11	CARBON 47 5% 1/4W	F
R217	1-249-441-11	CARBON 100K 5% 1/4W	
R232	1-247-807-31	CARBON 100 5% 1/4W	
R241	1-249-429-11	CARBON 10K 5% 1/4W	
R242	1-249-429-11	CARBON 10K 5% 1/4W	
R243	1-247-807-31	CARBON 100 5% 1/4W	
R244	1-247-807-31	CARBON 100 5% 1/4W	
R245	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R246	1-249-437-11	CARBON 47K 5% 1/4W	
R247	1-249-417-11	CARBON 1K 5% 1/4W	F
R248	1-249-397-11	CARBON 22 5% 1/4W	F
R249	1-249-397-11	CARBON 22 5% 1/4W	F
R250	1-249-441-11	CARBON 100K 5% 1/4W	
R252	1-249-441-11	CARBON 100K 5% 1/4W	
R253	1-249-440-11	CARBON 82K 5% 1/4W	
R254	1-249-408-11	CARBON 180 5% 1/4W	F
R255	1-249-428-11	CARBON 8.2K 5% 1/4W	F
R256	1-249-441-11	CARBON 100K 5% 1/4W	
R257	1-249-441-11	CARBON 100K 5% 1/4W	
R258	1-249-413-11	CARBON 470 5% 1/4W	F
R259	1-247-807-31	CARBON 100 5% 1/4W	
R261	1-249-417-11	CARBON 1K 5% 1/4W	F
R262	1-249-417-11	CARBON 1K 5% 1/4W	F
R263	1-249-417-11	CARBON 1K 5% 1/4W	F
R264	1-249-417-11	CARBON 1K 5% 1/4W	F
R265	1-249-401-11	CARBON 47 5% 1/4W	F
R267	1-249-441-11	CARBON 100K 5% 1/4W	
R278	1-249-437-11	CARBON 47K 5% 1/4W	
R279	1-249-441-11	CARBON 100K 5% 1/4W	
R282	1-247-807-31	CARBON 100 5% 1/4W	
R351	1-247-807-31	CARBON 100 5% 1/4W	
R352	1-247-807-31	CARBON 100 5% 1/4W	
R353	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R354	1-249-417-11	CARBON 1K 5% 1/4W	F
R355	1-249-429-11	CARBON 10K 5% 1/4W	
R356	1-249-429-11	CARBON 10K 5% 1/4W	
R357	1-249-429-11	CARBON 10K 5% 1/4W	
R358	1-249-429-11	CARBON 10K 5% 1/4W	
R359	1-249-429-11	CARBON 10K 5% 1/4W	
R360	1-249-429-11	CARBON 10K 5% 1/4W	
R401	1-249-441-11	CARBON 100K 5% 1/4W	
R402	1-249-441-11	CARBON 100K 5% 1/4W	
R403	1-249-441-11	CARBON 100K 5% 1/4W	
R404	1-249-430-11	CARBON 12K 5% 1/4W	
R405	1-249-430-11	CARBON 12K 5% 1/4W	
R406	1-249-430-11	CARBON 12K 5% 1/4W	
R407	1-249-435-11	CARBON 33K 5% 1/4W	
R408	1-249-435-11	CARBON 33K 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R409	1-249-435-11	CARBON	33K	5%	1/4W
R410	1-249-437-11	CARBON	47K	5%	1/4W
R411	1-249-437-11	CARBON	47K	5%	1/4W
R412	1-249-437-11	CARBON	47K	5%	1/4W
R413	1-249-417-11	CARBON	1K	5%	1/4W F
R414	1-249-417-11	CARBON	1K	5%	1/4W F
R415	1-249-417-11	CARBON	1K	5%	1/4W F
R416	1-249-441-11	CARBON	100K	5%	1/4W
R417	1-249-429-11	CARBON	10K	5%	1/4W
R418	1-249-429-11	CARBON	10K	5%	1/4W
R419	1-249-441-11	CARBON	100K	5%	1/4W
R420	1-249-429-11	CARBON	10K	5%	1/4W
R421	1-249-429-11	CARBON	10K	5%	1/4W
R422	1-247-887-00	CARBON	220K	5%	1/4W
R423	1-247-887-00	CARBON	220K	5%	1/4W
R424	1-247-887-00	CARBON	220K	5%	1/4W
R451	1-249-441-11	CARBON	100K	5%	1/4W
R452	1-249-441-11	CARBON	100K	5%	1/4W
R453	1-249-441-11	CARBON	100K	5%	1/4W
R454	1-249-430-11	CARBON	12K	5%	1/4W
R455	1-249-430-11	CARBON	12K	5%	1/4W
R456	1-249-430-11	CARBON	12K	5%	1/4W
R457	1-249-435-11	CARBON	33K	5%	1/4W
R458	1-249-435-11	CARBON	33K	5%	1/4W
R459	1-249-435-11	CARBON	33K	5%	1/4W
R460	1-249-437-11	CARBON	47K	5%	1/4W
R461	1-249-437-11	CARBON	47K	5%	1/4W
R462	1-249-437-11	CARBON	47K	5%	1/4W
R463	1-249-417-11	CARBON	1K	5%	1/4W F
R464	1-249-417-11	CARBON	1K	5%	1/4W F
R465	1-249-417-11	CARBON	1K	5%	1/4W F
R466	1-249-441-11	CARBON	100K	5%	1/4W
R467	1-249-429-11	CARBON	10K	5%	1/4W
R468	1-249-429-11	CARBON	10K	5%	1/4W
R472	1-247-887-00	CARBON	220K	5%	1/4W
R473	1-247-887-00	CARBON	220K	5%	1/4W
R474	1-247-887-00	CARBON	220K	5%	1/4W
R491	1-249-425-11	CARBON	4.7K	5%	1/4W F
R492	1-249-429-11	CARBON	10K	5%	1/4W
⚠ R493	1-249-393-11	CARBON	10	5%	1/4W F
R498	1-249-397-11	CARBON	22	5%	1/4W F
R499	1-249-397-11	CARBON	22	5%	1/4W F
R501	1-249-417-11	CARBON	1K	5%	1/4W F
R502	1-249-438-11	CARBON	56K	5%	1/4W
R503	1-247-842-11	CARBON	3K	5%	1/4W
R504	1-249-432-11	CARBON	18K	5%	1/4W
R507	1-249-416-11	CARBON	820	5%	1/4W F
R514	1-249-438-11	CARBON	56K	5%	1/4W
⚠ R524	1-249-408-11	CARBON	180	5%	1/4W F
⚠ R525	1-249-408-11	CARBON	180	5%	1/4W F
R527	1-247-850-11	CARBON	6.2K	5%	1/4W
R528	1-249-419-11	CARBON	1.5K	5%	1/4W F
R529	1-249-441-11	CARBON	100K	5%	1/4W
⚠ R530	1-249-393-11	CARBON	10	5%	1/4W F
⚠ R531	1-249-389-11	CARBON	4.7	5%	1/4W F
R532	1-249-437-11	CARBON	47K	5%	1/4W
R533	1-249-425-11	CARBON	4.7K	5%	1/4W F

Ref. No.	Part No.	Description			Remark
R534	1-249-429-11	CARBON	10K	5%	1/4W
⚠ R535	1-249-393-11	CARBON	10	5%	1/4W F
⚠ R538	1-215-868-00	METAL OXIDE	680	5%	1W
R541	1-249-429-11	CARBON	10K	5%	1/4W
R542	1-249-429-11	CARBON	10K	5%	1/4W
R543	1-249-425-11	CARBON	4.7K	5%	1/4W F
R544	1-249-429-11	CARBON	10K	5%	1/4W
⚠ R545	1-249-393-11	CARBON	10	5%	1/4W F
R546	1-249-427-11	CARBON	6.8K	5%	1/4W F
R547	1-249-417-11	CARBON	1K	5%	1/4W F
R551	1-249-417-11	CARBON	1K	5%	1/4W F
R552	1-249-438-11	CARBON	56K	5%	1/4W
R553	1-247-842-11	CARBON	3K	5%	1/4W
R557	1-249-416-11	CARBON	820	5%	1/4W F
R564	1-249-438-11	CARBON	56K	5%	1/4W
⚠ R574	1-249-408-11	CARBON	180	5%	1/4W F
⚠ R575	1-249-408-11	CARBON	180	5%	1/4W F
R577	1-247-850-11	CARBON	6.2K	5%	1/4W
R578	1-249-419-11	CARBON	1.5K	5%	1/4W F
R579	1-249-441-11	CARBON	100K	5%	1/4W
⚠ R580	1-249-393-11	CARBON	10	5%	1/4W F
⚠ R581	1-249-389-11	CARBON	4.7	5%	1/4W F
R582	1-249-437-11	CARBON	47K	5%	1/4W
R583	1-249-425-11	CARBON	4.7K	5%	1/4W F
R584	1-249-429-11	CARBON	10K	5%	1/4W
⚠ R585	1-249-393-11	CARBON	10	5%	1/4W F
⚠ R588	1-215-868-00	METAL OXIDE	680	5%	1W
R595	1-249-425-11	CARBON	4.7K	5%	1/4W F
R596	1-249-429-11	CARBON	10K	5%	1/4W
⚠ R597	1-249-393-11	CARBON	10	5%	1/4W F
⚠ R598	1-249-393-11	CARBON	10	5%	1/4W F
⚠ R599	1-249-393-11	CARBON	10	5%	1/4W F
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-438-11	CARBON	56K	5%	1/4W
R603	1-247-842-11	CARBON	3K	5%	1/4W
R604	1-249-432-11	CARBON	18K	5%	1/4W
R607	1-249-416-11	CARBON	820	5%	1/4W F
R614	1-249-438-11	CARBON	56K	5%	1/4W
⚠ R624	1-249-408-11	CARBON	180	5%	1/4W F
⚠ R625	1-249-408-11	CARBON	180	5%	1/4W F
R627	1-247-850-11	CARBON	6.2K	5%	1/4W
R628	1-249-419-11	CARBON	1.5K	5%	1/4W F
R629	1-249-441-11	CARBON	100K	5%	1/4W
⚠ R630	1-249-393-11	CARBON	10	5%	1/4W F
⚠ R631	1-249-389-11	CARBON	4.7	5%	1/4W F
R632	1-249-437-11	CARBON	47K	5%	1/4W
R633	1-249-425-11	CARBON	4.7K	5%	1/4W F
R634	1-249-429-11	CARBON	10K	5%	1/4W
⚠ R635	1-249-393-11	CARBON	10	5%	1/4W F
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-438-11	CARBON	56K	5%	1/4W
R653	1-247-842-11	CARBON	3K	5%	1/4W
R654	1-249-409-11	CARBON	220	5%	1/4W F
R655	1-249-409-11	CARBON	220	5%	1/4W F
R664	1-249-438-11	CARBON	56K	5%	1/4W
R683	1-249-425-11	CARBON	4.7K	5%	1/4W F
R684	1-249-429-11	CARBON	10K	5%	1/4W

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MAIN | MAIN VOL | POWER SWITCH | PRE AMP

Ref. No.	Part No.	Description			Remark
⚠R685	1-249-393-11	CARBON	10	5%	1/4W F
R991	1-249-417-11	CARBON	1K	5%	1/4W F (DA555ES)
R993	1-249-433-11	CARBON	22K	5%	1/4W (DA555ES)
R995	1-249-441-11	CARBON	100K	5%	1/4W (DA555ES)
R996	1-249-429-11	CARBON	10K	5%	1/4W
⚠R997	1-215-910-00	METAL OXIDE	68	5%	3W F (DA555ES)
		< VARIABLE RESISTOR >			
RV501	1-241-759-11	RES, ADJ, CARBON 220			
RV551	1-241-759-11	RES, ADJ, CARBON 220			
RV601	1-241-759-11	RES, ADJ, CARBON 220			
		< RELAY >			
RY401	1-515-793-11	RELAY			
RY501	1-515-920-11	RELAY (24V)			
RY502	1-515-920-11	RELAY (24V)			
RY503	1-515-793-11	RELAY			
RY504	1-515-793-11	RELAY			
RY601	1-515-920-11	RELAY (24V)			
RY602	1-515-793-11	RELAY			
		< TEST PIN >			
* TP501	1-560-060-00	PIN, CONNECTOR 2P			
* TP551	1-560-060-00	PIN, CONNECTOR 2P			
* TP601	1-560-060-00	PIN, CONNECTOR 2P			
**********					
*	1-670-141-11	MAIN VOL BOARD			
		**********			
		< CAPACITOR >			
C1492	1-126-008-51	ELECT	47uF	20%	16V
C1493	1-126-008-51	ELECT	47uF	20%	16V
C1501	1-126-044-11	ELECT	1uF	20%	50V
C1502	1-126-044-11	ELECT	1uF	20%	50V
		< CONNECTOR >			
CNP401	1-784-924-11	PIN, CONNECTOR 8P			
CNP403	1-779-978-11	PIN, CONNECTOR 3P			
CNP404	1-770-389-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP405	1-784-921-11	PIN, CONNECTOR 4P			
* CNP407	1-564-522-11	PLUG, CONNECTOR 7P			
CNP409	1-784-923-11	PIN, CONNECTOR 7P			
CNP1406	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P			
		< RESISTOR >			
R1496	1-249-397-11	CARBON	22	5%	1/4W F
R1497	1-249-397-11	CARBON	22	5%	1/4W F

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV1501	1-225-445-11	RES, VAR, CARBON 100KX6 (MASTER VOLUME)	
**********			
*	1-670-749-11	POWER SWITCH BOARD	
		**********	
		< SWITCH >	
S101	1-572-184-11	SWITCH, KEYBOARD (I/⏻)	
**********			
*	A-4414-252-A	PRE AMP BOARD, COMPLETE	
		**********	
		< CAPACITOR >	
C1401	1-165-319-11	CERAMIC CHIP 0.1uF	50V
C1403	1-126-049-11	ELECT 22uF 20%	50V
C1404	1-126-049-11	ELECT 22uF 20%	50V
C1410	1-126-049-11	ELECT 22uF 20%	50V
C1411	1-126-049-11	ELECT 22uF 20%	50V
C1412	1-126-049-11	ELECT 22uF 20%	50V
C1415	1-126-049-11	ELECT 22uF 20%	50V
C1416	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C1417	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C1418	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C1419	1-126-049-11	ELECT 22uF 20%	50V
C1420	1-126-049-11	ELECT 22uF 20%	50V
C1421	1-126-049-11	ELECT 22uF 20%	50V
C1460	1-126-049-11	ELECT 22uF 20%	50V
C1461	1-126-049-11	ELECT 22uF 20%	50V
C1462	1-126-049-11	ELECT 22uF 20%	50V
C1463	1-126-049-11	ELECT 22uF 20%	50V
C1464	1-126-049-11	ELECT 22uF 20%	50V
C1465	1-126-049-11	ELECT 22uF 20%	50V
C1466	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C1467	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C1468	1-163-251-11	CERAMIC CHIP 100PF 5%	50V
C1469	1-126-049-11	ELECT 22uF 20%	50V
C1470	1-126-049-11	ELECT 22uF 20%	50V
C1471	1-126-049-11	ELECT 22uF 20%	50V
		< CONNECTOR >	
* CNP1403	1-568-939-11	PIN, CONNECTOR 12P	
CNS1402	1-779-799-11	PIN, CONNECTOR 9P	
CNS1406	1-774-292-11	HOUSING,CONNECTOR(PC BOARD)15P	
		< DIODE >	
D1401	8-719-820-05	DIODE 1SS181	
D1402	8-719-820-05	DIODE 1SS181	
D1403	8-719-820-05	DIODE 1SS181	
D1404	8-719-820-05	DIODE 1SS181	
D1405	8-719-820-05	DIODE 1SS181	
D1406	8-719-820-05	DIODE 1SS181	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
		< IC >			
IC1401	8-759-636-55	IC M5218AFP			
IC1402	8-759-636-55	IC M5218AFP			
IC1403	8-759-636-55	IC M5218AFP			
		< TRANSISTOR >			
Q1401	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1402	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1403	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1404	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1405	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1406	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1407	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1408	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1409	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1410	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1411	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1412	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1413	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1414	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1415	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1416	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1417	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1418	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1419	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1420	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1421	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q1422	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1423	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1428	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1429	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1430	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1431	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1432	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1433	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1434	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1435	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1436	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1437	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q1451	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1452	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1453	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1454	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1455	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1456	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1457	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1458	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q1459	8-729-107-46	TRANSISTOR 2SC3624A-L15			
		< RESISTOR >			
R1403	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1404	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1405	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1411	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1412	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1413	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R1414	1-216-699-11	METAL CHIP	100K	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R1415	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R1416	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1417	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1418	1-216-050-00	RES,CHIP	1.1K	5%	1/10W
R1419	1-208-552-11	RES,CHIP	560K	2%	1/10W
R1420	1-208-552-11	RES,CHIP	560K	2%	1/10W
R1421	1-208-552-11	RES,CHIP	560K	2%	1/10W
R1422	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1423	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1424	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1425	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1426	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1427	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1428	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1429	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1430	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1431	1-216-050-00	RES,CHIP	1.1K	5%	1/10W
R1432	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1433	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1434	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1435	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1436	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1437	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1438	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1439	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1440	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1441	1-126-049-11	ELECT	22MF	20%	50V
R1442	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1443	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1444	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1445	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1446	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1447	1-216-089-91	RES, CHIP	47K	5%	1/10W
R1448	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R1453	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1454	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R1455	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1461	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1462	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1463	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R1464	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R1465	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
R1466	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1467	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1468	1-216-050-00	RES,CHIP	1.1K	5%	1/10W
R1469	1-208-552-11	RES,CHIP	560K	2%	1/10W
R1470	1-208-552-11	RES,CHIP	560K	2%	1/10W
R1471	1-208-552-11	RES,CHIP	560K	2%	1/10W
R1472	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1473	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1474	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1475	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1476	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1477	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1478	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1479	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1480	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1481	1-216-050-00	RES,CHIP	1.1K	5%	1/10W

PRE AMP PS

Ref. No.	Part No.	Description			Remark
R1482	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1483	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1484	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1485	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1486	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1487	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1488	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1489	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1490	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1491	1-216-050-00	RES,CHIP	1.1K	5%	1/10W
R1492	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1493	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1494	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1495	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1498	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1499	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1500	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1501	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1508	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1509	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1510	1-216-121-91	RES,CHIP	1M	5%	1/10W

****

*	A-4414-259-A	PS BOARD, COMPLETE (DA555ES:US)
		**********
*	A-4414-260-A	PS BOARD, COMPLETE (DA555ES:CND)
		**********
*	A-4414-627-A	PS BOARD, COMPLETE (DA333ES:US)
		**********
*	A-4414-628-A	PS BOARD, COMPLETE (DA333ES:CND)
		**********
	7-685-872-09	SCREW +BVTT 3X8 (S) (DA555ES)

< CAPACITOR >

C901	1-110-211-91	MYLAR	0.022uF	5%	50V
C902	1-110-211-91	MYLAR	0.022uF	5%	50V
C903	1-126-767-11	ELECT	1000uF	20%	16V
C904	1-126-960-11	ELECT	1uF	20%	50V
C905	1-126-959-11	ELECT	0.47uF	20%	50V
C906	1-126-957-11	ELECT	0.22uF	20%	50V
C907	1-126-964-11	ELECT	10uF	20%	50V
C908	1-164-159-11	CERAMIC	0.1uF		50V
C909	1-104-664-11	ELECT	47uF	20%	25V
C910	1-164-159-11	CERAMIC	0.1uF		50V
C911	1-164-159-11	CERAMIC	0.1uF		50V
C912	1-164-159-11	CERAMIC	0.1uF		50V
C913	1-128-564-11	ELECT	220uF	20%	100V
C916	1-137-420-11	FILM	0.047uF	10%	100V
C917	1-137-420-11	FILM	0.047uF	10%	100V
C918	1-125-900-12	ELECT	15000uF	20%	71V (DA555ES)
C918	1-125-901-13	ELECT	18000uF	20%	63V (DA333ES)
C919	1-125-900-12	ELECT	15000uF	20%	71V (DA555ES)
C919	1-125-901-13	ELECT	18000uF	20%	63V (DA333ES)

< CONNECTOR >

CNP913	1-784-921-11	PIN, CONNECTOR 4P
CNP908	1-785-106-11	PIN, CONNECTOR 8P
CNP909	1-785-102-11	PIN, CONNECTOR 4P
CNP910	1-779-977-11	PIN, CONNECTOR 6P

< DIODE >

D901	8-719-024-99	DIODE 11ES2-NTA2B
D902	8-719-024-99	DIODE 11ES2-NTA2B
D903	8-719-024-99	DIODE 11ES2-NTA2B
D904	8-719-024-99	DIODE 11ES2-NTA2B
D905	8-719-911-19	DIODE 1SS119-25
D906	8-719-911-19	DIODE 1SS119-25
D908	8-719-118-64	DIODE RD5.6F-T7B3
D909	8-719-024-99	DIODE 11ES2-NTA2B
D910	8-719-024-99	DIODE 11ES2-NTA2B
D911	8-719-911-19	DIODE 1SS119-25
D912	8-719-072-05	DIODE RBV-602LF-A (DA333ES)
D912	8-719-302-38	DIODE RBV-602-01 (DA555ES)
D914	8-719-072-05	DIODE RBV-602LF-A (DA333ES)
D914	8-719-302-38	DIODE RBV-602-01 (DA555ES)

< GROUND PLATE >

*	EP951	1-537-738-21	TERMINAL, EARTH

< FUSE >

⚠	F911	1-533-312-11	FUSE, GLASS CYLINDRICAL (DIA.5)(10A/125V)
⚠	F912	1-533-312-11	FUSE, GLASS CYLINDRICAL (DIA.5)(10A/125V)

< FUSE HOLDER >

FH911	1-533-217-31	HOLDER, FUSE
FH912	1-533-217-31	HOLDER, FUSE
FH961	1-533-217-31	HOLDER, FUSE
FH962	1-533-217-31	HOLDER, FUSE

< IC >

IC901	8-759-333-83	IC NJM2103D

< TRANSISTOR >

Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK
Q902	8-729-209-15	TRANSISTOR 2SD2012
Q903	8-729-119-79	TRANSISTOR 2SC2785-FEK

< RESISTOR >

R902	1-249-429-11	CARBON	10K	5%	1/4W	
R903	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R904	1-249-417-11	CARBON	1K	5%	1/4W	F
R905	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R906	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R908	1-249-433-11	CARBON	22K	5%	1/4W	
R909	1-249-439-11	CARBON	68K	5%	1/4W	
R910	1-249-437-11	CARBON	47K	5%	1/4W	
R912	1-249-430-11	CARBON	12K	5%	1/4W	
⚠	R913	1-247-727-11	CARBON	10	5%	1/2W F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
⚠R914	1-249-405-11	CARBON	100	5%	1/4W F
⚠R916	1-249-393-11	CARBON	10	5%	1/4W F
R917	1-249-425-11	CARBON	4.7K	5%	1/4W F
R918	1-249-429-11	CARBON	10K	5%	1/4W
		< RELAY >			
RY902	1-515-894-11	RELAY (US)			
RY903	1-755-235-11	RELAY (CND)			
RY904	1-755-235-11	RELAY (CND)			
		< SWITCH >			
S902	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECTOR)			
		< TRANSFORMER >			
⚠T902	1-450-361-11	TRANSFORMER, POWER (DA333ES)			
**********					
*	A-4414-280-A	REAR AMP BOARD, COMPLETE (DA555ES)			
		**********			
*	A-4414-301-A	REAR AMP BOARD, COMPLETE (DA333ES)			
		**********			
		< CAPACITOR >			
C701	1-126-047-81	ELECT	4.7uF	20%	50V
C702	1-162-283-31	CERAMIC	120PF	10%	50V
C703	1-124-995-11	ELECT	220uF	20%	10V
C704	1-102-233-00	CERAMIC	33PF	10%	500V
C705	1-102-934-00	CERAMIC	1.0PF	±0.25PF	50V
C714	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V
C720	1-126-008-51	ELECT	47uF	20%	16V
C721	1-107-597-11	CERAMIC	22PF	10%	500V
C722	1-107-597-11	CERAMIC	22PF	10%	500V
C723	1-162-286-31	CERAMIC	220PF	10%	50V
C724	1-136-157-00	FILM	0.022uF	5%	50V
C729	1-130-475-00	MYLAR	0.0022uF	5%	50V
C730	1-130-475-00	MYLAR	0.0022uF	5%	50V
C751	1-126-047-81	ELECT	4.7uF	20%	50V
C752	1-162-283-31	CERAMIC	120PF	10%	50V
C753	1-124-995-11	ELECT	220uF	20%	10V
C754	1-102-233-00	CERAMIC	33PF	10%	500V
C755	1-102-934-00	CERAMIC	1.0PF	±0.25PF	50V
C764	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V
C770	1-126-008-51	ELECT	47uF	20%	16V
C771	1-107-597-11	CERAMIC	22PF	10%	500V
C772	1-107-597-11	CERAMIC	22PF	10%	500V
C773	1-162-286-31	CERAMIC	220PF	10%	50V
C774	1-136-157-00	FILM	0.022uF	5%	50V
C779	1-130-475-00	MYLAR	0.0022uF	5%	50V
C780	1-130-475-00	MYLAR	0.0022uF	5%	50V
C798	1-126-077-11	ELECT	100uF	20%	100V
C799	1-126-077-11	ELECT	100uF	20%	100V
		< CONNECTOR >			
CNP701	1-784-923-11	PIN, CONNECTOR 7P			
CNP702	1-784-921-11	PIN, CONNECTOR 4P			
CNP703	1-785-103-11	PIN, CONNECTOR 5P			
CNP704	1-785-102-11	PIN, CONNECTOR 4P			

Ref. No.	Part No.	Description			Remark
CNP705	1-779-978-11	PIN, CONNECTOR 3P			
		< DIODE >			
D701	8-719-911-19	DIODE 1SS119-25			
D702	8-719-911-19	DIODE 1SS119-25			
D703	8-719-109-51	DIODE RD2.0ES-B2			
D704	8-719-911-19	DIODE 1SS119-25			
D705	8-719-911-19	DIODE 1SS119-25			
D751	8-719-911-19	DIODE 1SS119-25			
D752	8-719-911-19	DIODE 1SS119-25			
D753	8-719-109-51	DIODE RD2.0ES-B2			
D754	8-719-911-19	DIODE 1SS119-25			
		< IC >			
IC701	8-759-326-52	IC uPC2581V			
IC702	8-749-014-72	IC SAP15N			
IC703	8-749-014-73	IC SAP15P			
IC752	8-749-014-72	IC SAP15N			
IC753	8-749-014-73	IC SAP15P			
		< COIL >			
L701	1-411-906-11	COIL, AIR-CORE			
L751	1-411-906-11	COIL, AIR-CORE			
		< TRANSISTOR >			
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q709	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
		< RESISTOR >			
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-438-11	CARBON	56K	5%	1/4W
R703	1-247-840-00	CARBON	2.4K	5%	1/4W (DA555ES)
R703	1-247-842-11	CARBON	3K	5%	1/4W (DA333ES)
R704	1-249-432-11	CARBON	18K	5%	1/4W
R707	1-249-416-11	CARBON	820	5%	1/4W F
R714	1-249-438-11	CARBON	56K	5%	1/4W
⚠R724	1-249-408-11	CARBON	180	5%	1/4W F
⚠R725	1-249-408-11	CARBON	180	5%	1/4W F
R727	1-247-850-11	CARBON	6.2K	5%	1/4W
R728	1-249-419-11	CARBON	1.5K	5%	1/4W F
R729	1-249-441-11	CARBON	100K	5%	1/4W
⚠R730	1-249-393-11	CARBON	10	5%	1/4W F
⚠R731	1-249-389-11	CARBON	4.7	5%	1/4W F
R732	1-249-437-11	CARBON	47K	5%	1/4W
R733	1-249-425-11	CARBON	4.7K	5%	1/4W F
R734	1-249-429-11	CARBON	10K	5%	1/4W
⚠R735	1-249-393-11	CARBON	10	5%	1/4W F
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-438-11	CARBON	56K	5%	1/4W
R753	1-247-840-00	CARBON	2.4K	5%	1/4W (DA555ES)
R753	1-247-842-11	CARBON	3K	5%	1/4W (DA333ES)
R757	1-249-416-11	CARBON	820	5%	1/4W F
R764	1-249-438-11	CARBON	56K	5%	1/4W

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REAR AMP | S. VIDEO | SP SWITCH

Ref. No.	Part No.	Description			Remark
⚠R774	1-249-408-11	CARBON	180	5%	1/4W F
⚠R775	1-249-408-11	CARBON	180	5%	1/4W F
R777	1-247-850-11	CARBON	6.2K	5%	1/4W
R778	1-249-419-11	CARBON	1.5K	5%	1/4W F
R779	1-249-441-11	CARBON	100K	5%	1/4W
⚠R780	1-249-393-11	CARBON	10	5%	1/4W F
⚠R781	1-249-389-11	CARBON	4.7	5%	1/4W F
R782	1-249-437-11	CARBON	47K	5%	1/4W
⚠R798	1-249-393-11	CARBON	10	5%	1/4W F
⚠R799	1-249-393-11	CARBON	10	5%	1/4W F
		< VARIABLE RESISTOR >			
RV701	1-241-759-11	RES, ADJ, CARBON 220			
RV751	1-241-759-11	RES, ADJ, CARBON 220			
		< RELAY >			
RY701	1-515-920-11	RELAY (24V)			
		< TEST PIN >			
* TP701	1-560-060-00	PIN, CONNECTOR 2P			
* TP751	1-560-060-00	PIN, CONNECTOR 2P			

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*	A-4414-297-A	S.VIDEO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C801	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C802	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C803	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C804	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C807	1-126-933-11	ELECT	100uF	20%	16V
C808	1-126-933-11	ELECT	100uF	20%	16V
C809	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C810	1-126-964-11	ELECT	10uF	20%	50V
C811	1-126-933-11	ELECT	100uF	20%	16V
C812	1-126-933-11	ELECT	100uF	20%	16V
C813	1-126-933-11	ELECT	100uF	20%	16V
C814	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C815	1-126-933-11	ELECT	100uF	20%	16V
C818	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C821	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C822	1-126-964-11	ELECT	10uF	20%	50V
C823	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C824	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C825	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C826	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C827	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C828	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C829	1-126-964-11	ELECT	10uF	20%	50V
C830	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C831	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C833	1-126-964-11	ELECT	10uF	20%	50V
C834	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C845	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C868	1-126-964-11	ELECT	10uF	20%	50V
C869	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CNP803	1-784-922-11	PIN, CONNECTOR 5P			
CNP805	1-779-799-11	PIN, CONNECTOR 9P			
		< DIODE >			
D801	8-719-016-74	DIODE 1SS352			
D802	8-719-016-74	DIODE 1SS352			
		< IC >			
IC801	8-759-701-84	IC NJM7905FA			
IC811	8-759-536-24	IC NJM-2296M-TE2			
IC812	8-759-536-24	IC NJM-2296M-TE2			
		< JACK >			
J101	1-563-330-11	JACK (CONTROL A1)			
J801	1-764-676-11	CONNECTOR (ROUND TYPE)(TV/DBS/DVD/LD)			
J802	1-764-676-11	CONNECTOR (ROUND TYPE)(VIDEO2)			
J803	1-764-676-11	CONNECTOR (ROUND TYPE)(VIDEO1)			
J804	1-537-943-11	TERMINAL, S (MONITOR)			
		< COIL >			
L801	1-500-425-11	FERRITE	0uH		
L802	1-500-425-11	FERRITE	0uH		
L803	1-500-425-11	FERRITE	0uH		
L804	1-500-425-11	FERRITE	0uH		
		< RESISTOR >			
R801	1-216-089-91	RES,CHIP	47K	5%	1/10W
R815	1-216-022-00	METAL CHIP	75	5%	1/10W
R818	1-216-022-00	METAL CHIP	75	5%	1/10W
R819	1-216-022-00	METAL CHIP	75	5%	1/10W
R821	1-216-022-00	METAL CHIP	75	5%	1/10W
R822	1-216-022-00	METAL CHIP	75	5%	1/10W
R823	1-216-022-00	METAL CHIP	75	5%	1/10W
R825	1-216-022-00	METAL CHIP	75	5%	1/10W
R827	1-216-022-00	METAL CHIP	75	5%	1/10W
R831	1-216-022-00	METAL CHIP	75	5%	1/10W
R838	1-216-022-00	METAL CHIP	75	5%	1/10W
R851	1-216-022-00	METAL CHIP	75	5%	1/10W
R857	1-216-022-00	METAL CHIP	75	5%	1/10W
R8055	1-216-022-00	METAL CHIP	75	5%	1/10W
R8056	1-216-022-00	METAL CHIP	75	5%	1/10W

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*	1-670-142-11	SP SWITCH BOARD			
		**********			
		< CONNECTOR >			
* CNP102	1-569-798-11	PLUG, CONNECTOR 6P			
		< DIODE >			
D105	8-719-911-19	DIODE 1SS119-25			
D106	8-719-911-19	DIODE 1SS119-25			

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Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R155	1-249-413-11	CARBON	470	5%	1/4W F
R156	1-249-415-11	CARBON	680	5%	1/4W F
R157	1-249-417-11	CARBON	1K	5%	1/4W F
R158	1-249-419-11	CARBON	1.5K	5%	1/4W F
		< SWITCH >			
S102	1-762-268-11	SWITCH, ROTARY (SPEAKER)			
S122	1-572-184-11	SWITCH, KEYBOARD (PRE +)			
S123	1-572-184-11	SWITCH, KEYBOARD (PRE -)			
S124	1-572-184-11	SWITCH, KEYBOARD (SHIFT)			
S125	1-572-184-11	SWITCH, KEYBOARD (FM/AM)			
**********					
*	1-670-150-11	SP TM BOARD **********			
		< CAPACITOR >			
C590	1-162-282-31	CERAMIC	100PF	10%	50V
C591	1-162-282-31	CERAMIC	100PF	10%	50V
C625	1-162-282-31	CERAMIC	100PF	10%	50V
C725	1-162-282-31	CERAMIC	100PF	10%	50V
C775	1-162-282-31	CERAMIC	100PF	10%	50V
		< TERMINAL >			
* TM501	1-694-454-21	TERMINAL BOARD (SP)			
TM701	1-694-432-21	TERMINAL BOARD (SP)			
**********					
*	1-670-151-11	TH BOARD (DA555ES) **********			
		< CONNECTOR >			
* CNP502	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
		< THERMISTOR >			
TH901	1-809-789-71	THERMISTOR, POSITIVE (DA555ES)			
**********					
*	1-670-138-11	VIDEO BOARD **********			
		< CAPACITOR >			
C805	1-164-159-11	CERAMIC	0.1uF		50V
C806	1-164-159-11	CERAMIC	0.1uF		50V
C816	1-126-933-11	ELECT	100uF	20%	16V
C817	1-126-933-11	ELECT	100uF	20%	16V
C832	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C835	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C836	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C853	1-126-960-11	ELECT	1uF	20%	50V
C856	1-126-960-11	ELECT	1uF	20%	50V
C858	1-126-960-11	ELECT	1uF	20%	50V
C862	1-126-960-11	ELECT	1uF	20%	50V
C867	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remark
		< IC >			
IC813	8-759-529-20	IC NJM2296D			
		< JACK >			
J805	1-766-400-11	JACK, PIN 2P (VIDEO1 OUT/VIDEO2 IN)			
J806	1-766-400-11	JACK, PIN 2P (MONITOR/VIDEO1 IN)			
J807	1-766-399-11	JACK, PIN 3P (VIDEO2 OUT/DVD/LD/TV/DBS)			
		< COIL >			
L805	1-410-521-11	INDUCTOR	100uH		
L806	1-410-521-11	INDUCTOR	100uH		
		< RESISTOR >			
R861	1-247-804-11	CARBON	75	5%	1/4W
R862	1-247-804-11	CARBON	75	5%	1/4W
R863	1-247-804-11	CARBON	75	5%	1/4W
R866	1-247-804-11	CARBON	75	5%	1/4W
R868	1-247-804-11	CARBON	75	5%	1/4W
R869	1-247-804-11	CARBON	75	5%	1/4W
R879	1-247-804-11	CARBON	75	5%	1/4W
**********					
		MISCELLANEOUS **********			
56	1-698-792-11	FAN, DC (DA555ES)			
68	1-693-407-11	TUNER			
74	1-773-115-11	WIRE (FLAT TYPE)(19 CORE)			
⚠77	1-559-479-11	CORD, POWER			
IC502	8-749-014-72	IC SAP15N			
IC503	8-749-014-73	IC SAP15P			
IC552	8-749-014-72	IC SAP15N			
IC553	8-749-014-73	IC SAP15P			
IC602	8-749-014-72	IC SAP15N			
IC603	8-749-014-73	IC SAP15P			
IC702	8-749-014-72	IC SAP15N			
IC703	8-749-014-73	IC SAP15P			
IC752	8-749-014-72	IC SAP15N			
IC753	8-749-014-73	IC SAP15P			
⚠T901	1-431-921-11	TRANSFORMER, POWER (DA555ES:US)			
⚠T901	1-431-922-11	TRANSFORMER, POWER (DA555ES:CND)			
⚠T901	1-431-925-11	TRANSFORMER, POWER (DA333ES:US)			
⚠T901	1-431-926-11	TRANSFORMER, POWER (DA333ES:CND)			
**********					
		ACCESSORIES & PACKING MATERIALS **********			
	1-418-292-11	REMOTE COMMANDER (RM-TP502)(DA555ES)			
	1-418-293-11	REMOTE COMMANDER (RM-LJ302)(DA333ES)			
	1-501-374-11	ANTENNA, LOOP			
	1-528-174-31	BATTERY, LITHIUM (CR2032 TYPE)(DA555ES)			
	3-866-289-11	MANUAL, INSTRUCTION (ENGLISH)			
	3-866-289-21	MANUAL, INSTRUCTION (FRENCH) (DA333ES:CND/DA555ES:CND)			
	3-866-294-11	MANUAL (RM-TP502), INSTRUCTION (ENGLISH,FRENCH,SPANISH)(DA555ES)			

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Ref. No.	Part No.	Description	Remark
	3-866-295-11	MANUAL (RM-LJ302), INSTRUCTION (ENGLISH)(DA333ES)	
	3-866-295-21	MANUAL (RM-LJ302), INSTRUCTION (FRENCH,SPANISH)(DA333ES:CND)	
	3-866-670-11	MANUAL,COMMONNESS INSTRUCTION (ENGLISH)	
	3-866-670-21	MANUAL,COMMONNESS INSTRUCTION (ENGLISH,FRENCH,GERMAN,SPANISH,DUTCH,PORTUGUESE, SWEDISH,ITALIAN,CHINSESE) (DA333ES:CND/DA555ES:CND)	
	4-210-990-01	BATTERY CASE (For RM-LJ302)(DA333ES)	
	4-219-754-01	CARD, OWNER REGISTRATION (DA333ES:US/DA555ES:US)	
	4-997-648-11	COVER, BATTERY (For RM-TP502)(DA555ES)	
	4-997-658-01	PEN (For RM-TP502)(DA555ES)	

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HARDWARE LIST
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#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-881-09	SCREW +BVTT 4X8 (S)	
#3	7-685-885-09	SCREW +BVTT 4X16 (S)	
#4	7-685-872-09	SCREW +BVTT 3X8 (S)	

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